

Decision Document

**Solid Waste Management Unit J-28
Building 108-3 Catchment Pits
Hawthorne Army Depot
Hawthorne, Nevada**



October 2001



Hawthorne Army
Depot



Decision Document SWMU J-28

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NOV 21 2001

ENVIRONMENTAL PROTECTION

October 2001

The selected remedy is protective of human health and the environment. It has been shown that a complete pathway to human health and the environment does not exist, and there is no potential for an exposure pathway to be completed in the future.

U.S. Army

19 NOV 2001

Anne L. Davis

Anne L. Davis
Lieutenant Colonel, U.S. Army
Commanding

State of Nevada

30 Nov 2001

Paul Liebendorfer

Paul Liebendorfer
Chief, Bureau of Federal Facilities

Decision Document

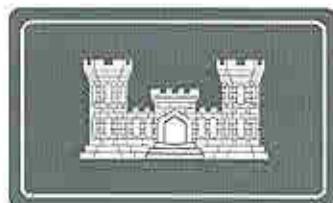
**Solid Waste Management Unit J-28
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Hawthorne, Nevada**



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SWMU J-28
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Hawthorne, Nevada

1.0 Introduction

This decision document describes the rationale for the proposed closure of SWMU J-28, building 108-3 Production Area, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. The U.S. Army Corps of Engineers, Sacramento District, prepared this document with the help of HWAD for the Nevada Department of Environmental Protection (NDEP).

Tetra Tech, Inc. (Tt), was tasked by the US Army Corps of Engineers, Sacramento District (USACE), to perform remedial investigations and ground water monitoring at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. These tasks were conducted from 1993 through 1997, primarily at solid waste management units (SWMUs) designated by the Army and the Nevada Division of Environmental Protection (NDEP). The NDEP is the lead regulatory agency for environmental issues at HWAD. The purpose of the sampling was to determine the extent and degree of environmental impacts, if any, associated with activities performed at each SWMU. The primary goal of the investigation was to assess the environmental impacts and to report the findings, present conclusions, and recommend any remediation, if necessary.

With guidance from the NDEP, basewide proposed closure goals (PCGs) for soil were established as acceptable levels so that SWMU closure could be recommended and to assist in directing the investigative efforts toward those SWMUs where the target analytes were of greatest concern (Appendix A). These PCGs were used as action levels throughout this investigation and are used for comparison with the detected analytes in this report.

2.0 Site History

SWMU J-28 is in the HWAD's north magazine area, inside the Building 108 Group (Figure 1-1). This SWMU has two unlined catchment pits, one on the southeast side and one on the northwest side of Building 108-3 (Figure 1-2). The pit on the southeast side is larger and measures approximately 100 feet long by 50 feet wide and is up to five feet deep. The pit on the northwest side is smaller and measures approximately 20 feet square and is up to five feet deep. Both catchment pits were used to contain runoff from painting operations in Building 108-3.

The USACE, HWAD, and the NDEP agreed to define the boundaries of each SWMU using annotated monuments and survey pins. As part of Tt's 1997 field investigations, two survey monuments were constructed and surveyed at SWMU J-28. A brass survey pin on each monument designates the monument numbers HWAAP-24-1996 and HWAAP-69-1996, and the SWMU number J-28. Two corner pins were set and surveyed to define a rectangular SWMU boundary around each of the catchment pits, excluding Building 108-3, with the monuments at

the west corners. The location of these corner markers and the SWMU boundaries are shown on Figure 1-2. Survey data for SWMU J-28 is presented in Appendix B.

3.0 Site Conditions

SWMU J-28 had two unlined catchment pits that may have contained chemicals of environmental concern by NDEP (USACE 1993). There was no visual evidence of an environmental release at this SWMU, but the RAI survey indicated that both pits were used for discharging wastewater that contained paint residues. Depth to groundwater at the site is about 90 feet below ground surface (bgs).

Based on the knowledge of the history and use of SWMU J-28, the target analytes were assumed to be volatile organic compounds (VOCs) and metals. Explosives also are included as a target analyte for this SWMU, based on HWAD's primary basewide operations.

4.0 Investigations

RAI conducted a site inspection of SWMU J-28 in 1992 (RAI 1992), during which there were no observations of an environmental release. No investigation activities were conducted during this inspection, and no samples were collected from the SWMU at that time.

During the 1994 remedial investigation, Tt performed line locating at SWMU J-28 to trace the drain lines from Building 108-3 to the two catchment pits at this SWMU. The purpose of this survey was to locate potential release points of the wastewater disposed of from Building 108-3 and to identify potential sources of target analytes at this SWMU.

During Tt's 1994 remedial investigation, Target Environmental Services, Inc. (TES) conducted a soil gas survey to screen for VOCs in the near-surface soils. The intent of the soil gas survey was to assess if any areas within the SWMU contained high concentrations of VOCs in the soil gas. Twenty-two vapor-monitoring probes were installed in an irregular pattern at SWMU J-28 to depths of five feet bgs to collect soil gas samples. The locations of these soil gas probes are shown on Figure 3-1. The sample locations are also shown in Figure 3-1.

Tt's sampling activities in 1997 for the remedial investigation at SWMU J-28 included collecting and analyzing sediment samples, surface and subsurface soil samples, and hydro punch ground water samples. Sixteen surface soil samples were collected during Tt's 1994 investigation of SWMU J-28. Three surface soil samples were collected from the smaller catchment pit northwest of Building 108-3 at locations SS01 through SS03, and 11 surface soil samples were collected from in and around the larger catchment pit southeast of Building 108-3 at locations SS04 through SS14. Two sediment samples, J-28-SD01-1-S and J228-SD02-1-S, were collected from the settling tanks on both sides of Building 108-3.

In 1998 Allied Technical Group Inc. (ATG) completed three soil borings in the J-28 area. The locations of the borings are shown on Figure 4. ATG conducted the additional sampling to determine if any VOC's were present at depth at J-28. This additional investigation was

undertaken because of the TCE that was present in the soil gas samples. ATG completed the soil borings with soil samples collected at every 15' to a depth of 90'. Groundwater samples as well as soil samples were also collected from the borings.

5.0 Investigation Results

Two sediment samples collected from the settling tanks adjacent to Building 108-3 contained cadmium (0.7 mg/kg to 2.3 mg/kg), total chromium (11 mg/kg to 25 mg/kg), and lead (41 mg/kg to 200 mg/kg), exceeding their respective maximum expected background concentrations of 1.08 mg/kg, 13.76 mg/kg, and 16.7 mg/kg. The maximum concentrations of total chromium and lead also exceeded their respective PCGs of 20 mg/kg and 100 mg/kg.

The 22 surface soil samples contained arsenic (<5 mg/kg to 39 mg/kg), cadmium (<0.2 mg/kg to 40 mg/kg), total chromium (0.8 mg/kg to 72 mg/kg), lead (<5 mg/kg to 390 mg/kg), and mercury (<0.04 mg/kg to 0.13 mg/kg) at concentrations greater than their respective maximum expected background concentrations of 18.1 mg/kg, 1.08 mg/kg, 13.76 mg/kg, 16.7 mg/kg, and 0.108 mg/kg. Only the one maximum cadmium concentration was greater than its PCG of 20 mg/kg. Five of the total chromium's concentrations were greater than its PCG of 20 mg/kg, and two of the lead concentrations were greater than its PCG of 100 mg/kg.

Three explosives, RDX (0.71 mg/kg), TNB (0.39 mg/kg), and TNT (0.8 mg/kg), that were found in sediment sample J28-SD02-1-S collected from the settling tank northwest of Building 108-3, indicate that the wastewater from this building also contained explosives. Only one surface soil sample, J28-SS01-0-S, collected from the smaller catchment pit northwest of Building 108-3, contained TNT at 0.72 mg/kg. No other explosives were found in this sample, and none of the other surface soil samples contained detectable concentrations of explosives. The concentrations of all of these explosives are less than their respective PCGs.

No explosives or VOCs were found in any of the 26 subsurface soil samples; therefore, it does not appear that the subsurface soils at this SWMU have been impacted by these target analytes. The 1997 analytical results are shown in appendix C.

The sediment sample J28-SD01-1-S, which was collected from the settling tank southeast of Building 108-3, contained barium (64 mg/kg), cadmium (0.7 mg/kg), total chromium (11 mg/kg), lead (41 mg/kg), and mercury (0.018 mg/kg). No other metals and no explosives were found in this sediment sample. The sediment sample J28-SD02-1-S, which was collected from the settling tank northwest of Building 108-3, contained barium (70 mg/kg), cadmium (2.3 mg/kg), total chromium (25 mg/kg), lead (200 mg/kg), RDX (0.71 mg/kg), 1,3,5-trinitrobenzene (TNB) (0.39 mg/kg), and TNT (0.8 mg/kg). No other metals or explosives were detected in this sample. Results from the ATG sampling indicated TCE detections of 1J ppb and 0.4J ppb below the MCL of 5 ppb for TCE. Methylene chloride, chloroform, toluene and benzene were also detected in both soil and groundwater samples; however, these detections appear to be cross-contamination from the deionized water. The trip and rinsate blanks consistently detected the same chemicals. The analytical data from ATG's investigation is presented in appendix D.

Soils or groundwater have not been impacted by any VOC's. It cleaned the sums of sediment in the summer of 2000, and as was recommended in the RI report, the pits were backfilled with treated compost material to eliminate the surface exposure to soils found to have elevated metals. Approximately 0.5 cubic yards of sediment were removed from the sump, placed in a 55 gal. Drum, and disposed of by Universal Environmental Nevada by taking the material to 21 Century EMI facility in Fernley, Nevada. A copy of the waste manifest is presented in appendix E. No other remediation work was required for this SWMU.

6.0 Remediation

~~No remediation required.~~

7.0 Remediation Results

N/A

8.0 Public Involvement

It is the U.S. Department of Defense and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established and maintains a repository library at the local public library. This repository includes final copies of all past studies and other documents regarding environmental issues at HWAD. As future environmental documents are made available to HWAD the repository shall be updated.

HWAD has solicited community participation in establishment of a restoration and advisory board (RAB). To date there has been insufficient response and HWAD has not formed a RAB. HWAD has held open houses to inform the public of on going environmental issues. HWAD shall continue to solicit community involvement, and will establish a RAB should sufficient community interest be obtained.

9.0 Conclusions

SWMU J-28 was backfilled with treated compost. The SWMU should be closed with the restrictions that no structure be constructed on the filled pit areas of the SWMU, that the site remains only for industrial use, and documented on the depot site master plan.

10.0 REFERENCES

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- USACE. 1995. Risk Assessment Handbook: Volume I Human Health Assessment (EM 200-1-4). USACE. June 1995.
- USAEEHA. 1988. Final Report. Ground Water Contamination Survey No. 38-26-0850-88. Evaluation of Solid Waste Management Units. HWAAP, Hawthorne, Nevada. May 12-19, 1987 and August 1-5, 1988.
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- USEPA. 1989. Risk Assessment Guidance for Superfund. Volume I Human Health Evaluation Manual (Part A). December 1989.

_____. 1996. Region IX Preliminary Remediation Goals. USEPA Region IX. August 1996.

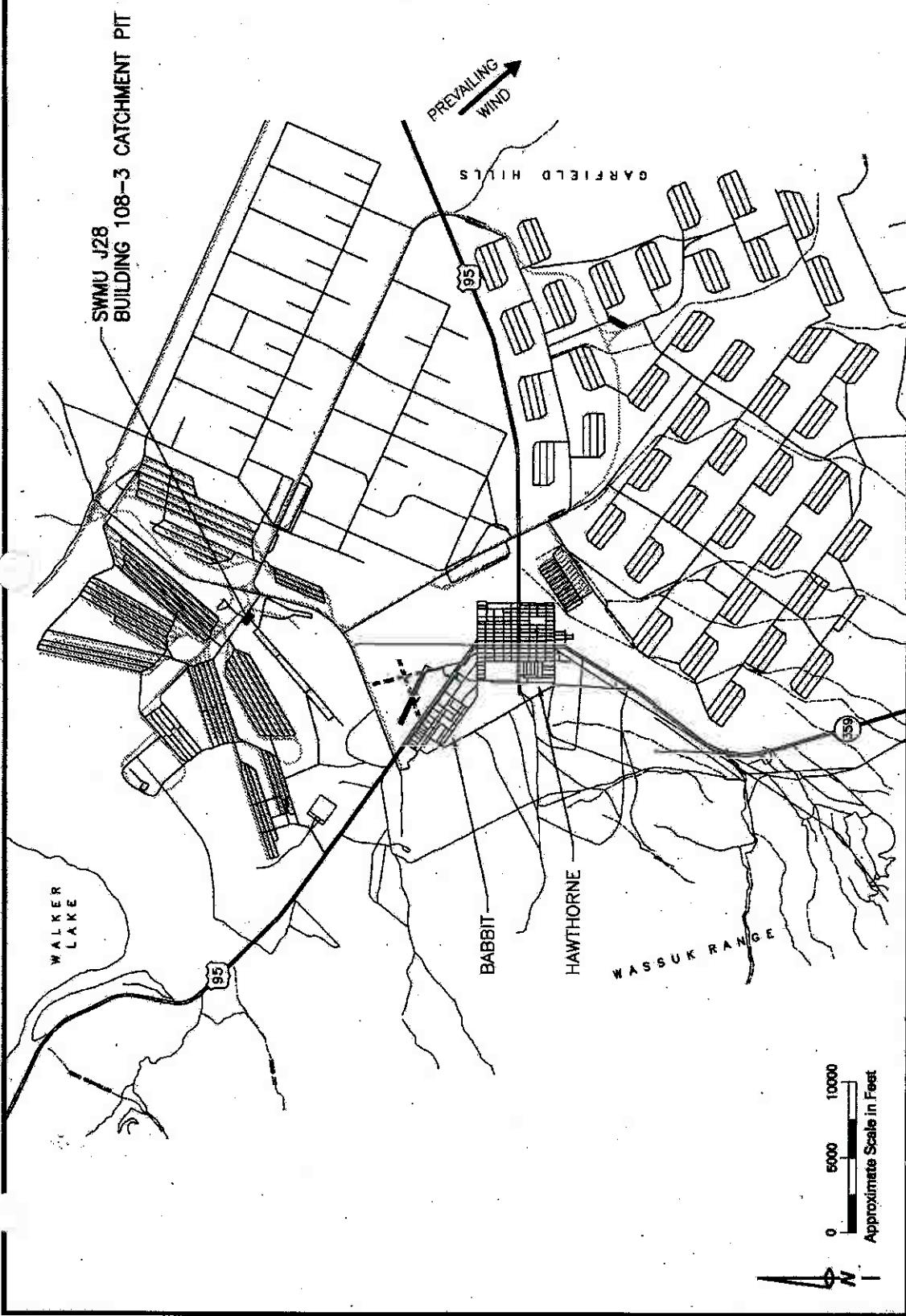
WaterWork. 1990. Hawthorne Army Ammunition Plant, Area 101 Surface Impoundments, Field and Lab Data and Analysis, Attachment 1-8.

SWMU J28
Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-1

Site Location Map
SWMU J28

Building 108-3 Catchment Pits



SOURCE: TETRA TECH FINAL DATA PACKAGE, 1998 (REV. 1997)

C:\0082\32\swmu-map.dwg - 4/30/98 - BC



Legend:

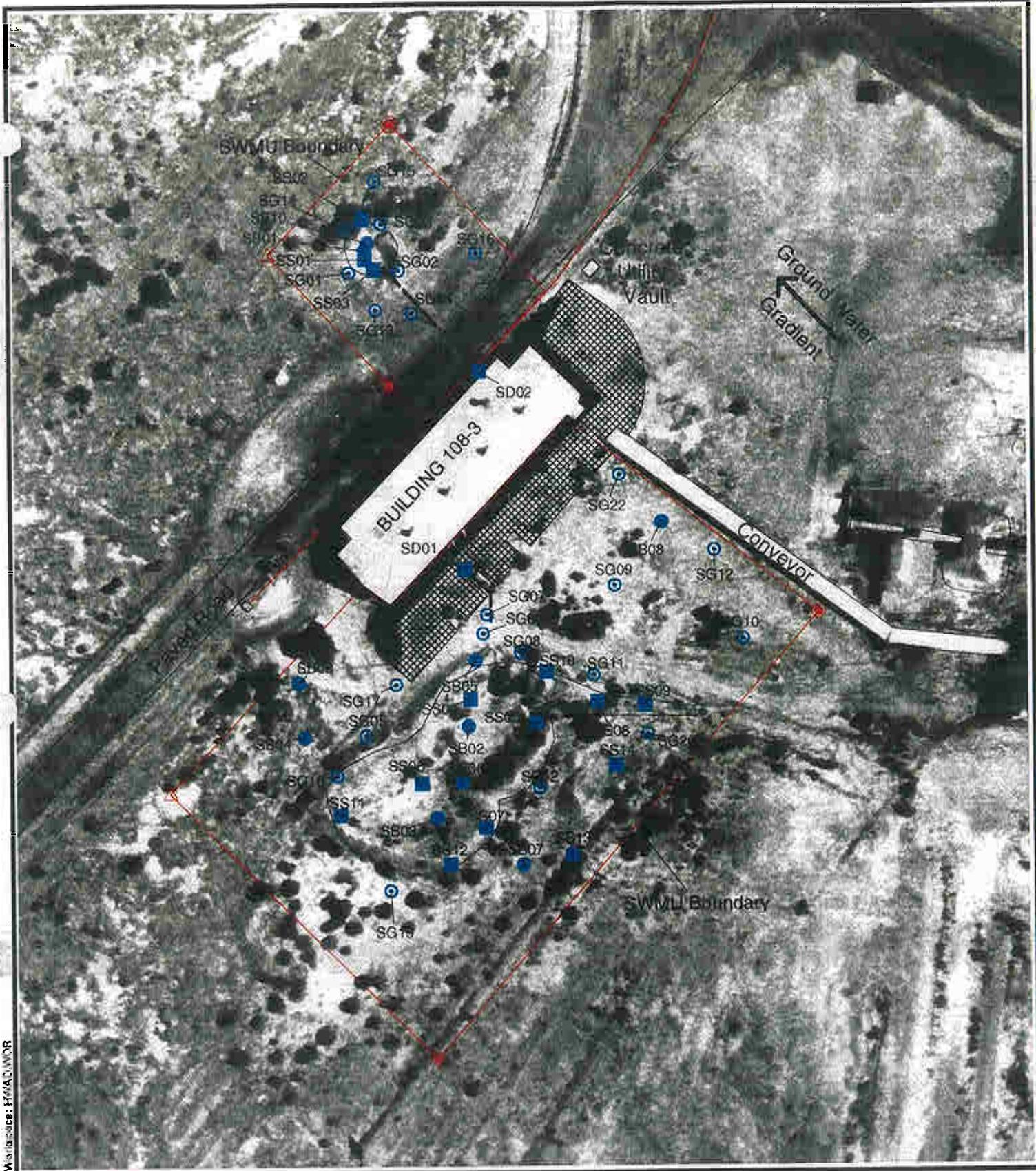
- Boundary Corner Pin
- - - Drain Line
- ☒ Explosion Barrier

Railroad
SWMU Monument

0 50 100
Approximate Scale in Feet

Building 108-3 Catchment Pits
Hawthorne Army Depot
Hawthorne, Nevada

Figure 1-2



Investigation Activity Map

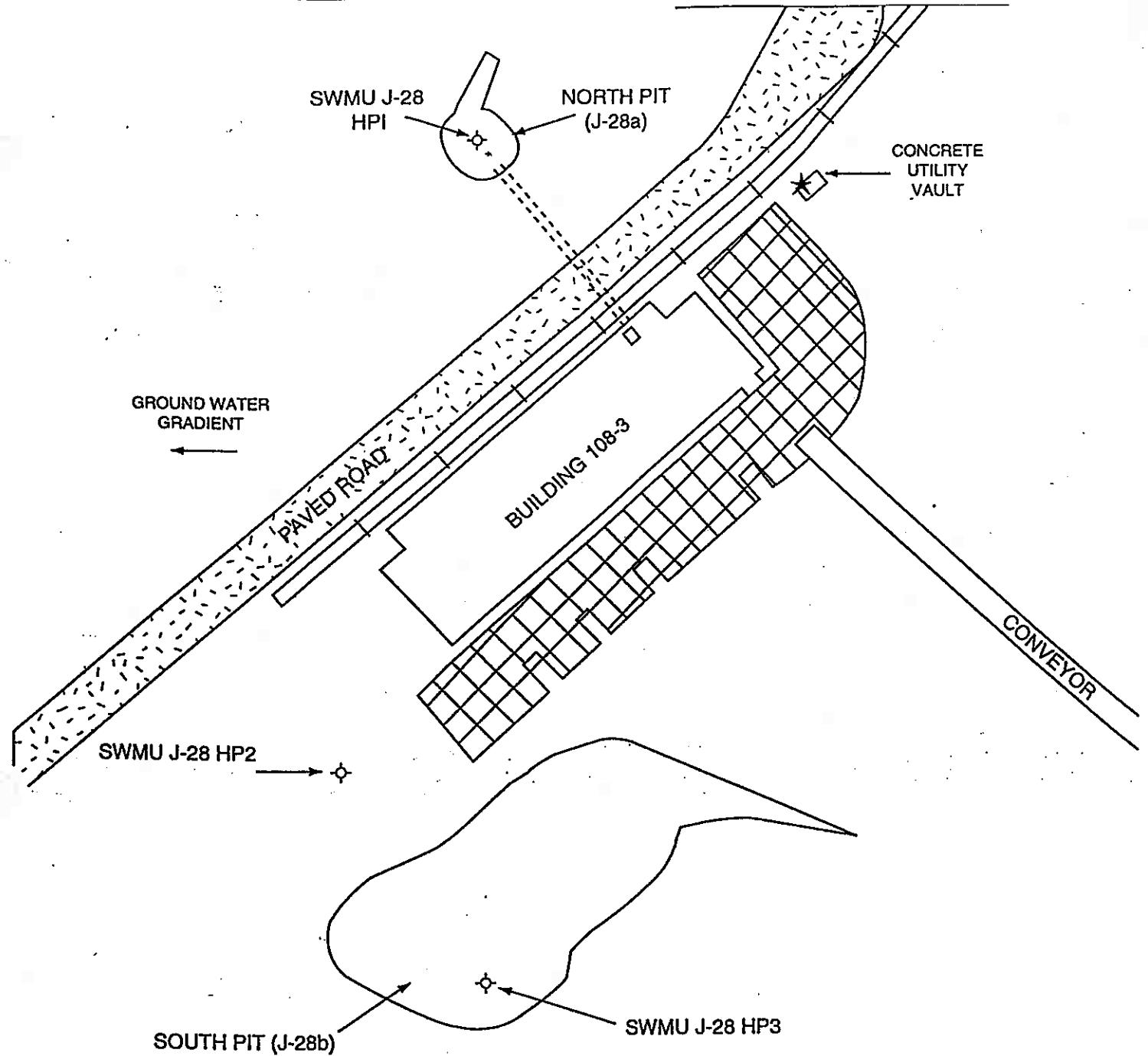
SWMU J28

Building 108-3 Catchment Pits

Hawthorne Army Depot
Hawthorne, Nevada

N 0 50 100
Approximate Scale in Feet

Figure 3-1



LEGEND

- ★ SWMU Reference Point
- ◊ Soil Boring/Hydropsych Location and Number
- Discharge Line
- [Hatched Box] Explosion Barrier
- GW = Groundwater
- ND = Not Detected
- MC = Methylene Chloride
- TCE = Trichlorethane
- TCA = Tetrachloroethane
- Ppb = Parts per billion
- VOC = Volatile Organic Compounds

0 37.5 75
1" = 120' (APPROXIMATE)



ATG INC. 47375 FREMONT BOULEVARD FREMONT, CA 94538
SWMU J-28 BLDG 108 CATCHMENT PITS HAWTHORNE ARMY DEPOT, NEVADA

FIGURE 4

Appendix A

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Nitrate	Anion	NC	128,000	Calculated Subpart S ^a
2-Amino-dinitrotoluene	Explosive	NC	-	NA ^b
4-Amino-dinitrotoluene	Explosive	NC	-	NA
1,3-Dinitrobenzene	Explosive	NC	8	Calculated Subpart S
2,4-Dinitrotoluene	Explosive	NC	160	Calculated Subpart S
2,6-Dinitrotoluene	Explosive	NC	80	Calculated Subpart S
HMX	Explosive	NC	4,000	Calculated Subpart S
Nitrobenzene	Explosive	NC	40	Calculated Subpart S
Nitrotoluene (2-, 3-, 4-)	Explosive	NC	800	Calculated Subpart S
RDX	Explosive	NC	64	Calculated Subpart S
Tetryl	Explosive	NC	800	Calculated Subpart S
1,3,5-Trinitrobenzene	Explosive	NC	4	Calculated Subpart S
2,4,6-Trinitrotoluene	Explosive	C	233	Calculated Subpart S
Aluminum	Metal	NC	80,000	Calculated Subpart S
Arsenic (cancer endpoint)	Metal	C & NC	30	Background ^c
Barium and compounds	Metal	NC	5,600	Calculated Subpart S
Beryllium and compounds	Metal	C	1	Background
Cadmium and compounds	Metal	NC	40	Calculated Subpart S
Chromium III and compounds	Metal	NC	80,000	Calculated Subpart S
Lead	Metal	NC	1000	PRG ^d
Mercury and compounds (inorganic)	Metal	NC	24	Calculated Subpart S
Selenium	Metal	NC	400	Calculated Subpart S
Silver and compounds	Metal	NC	400	Calculated Subpart S
Acenaphthene	PAH	NC	4,800	Calculated Subpart S
Benzof[a]anthracene	PAH	C	0.96	Calculated Subpart S
Benzo[a]pyrene	PAH	C	0.10	Detection Limit ^e
Benzo[b]fluoranthene	PAH	C	0.96	Calculated Subpart S
Benzo[k]fluoranthene	PAH	C	10	Calculated Subpart S
Chrysene	PAH	C	96	Calculated Subpart S
Dibenz[ah]anthracene	PAH	C	0.96	Calculated Subpart S
Fluoranthene	PAH	NC	3,200	Calculated Subpart S
Fluorene	PAH	NC	3,200	Calculated Subpart S
Indeno[1,2,3-cd]pyrene	PAH	C	-	NA
Naphthalene	PAH	NC	3,200	Calculated Subpart S
Pyrene	PAH	NC	2,400	Calculated Subpart S
Total Petroleum Hydrocarbons as Diesel (TPH-d)	PAH	C	100	NDEP Level Clean-up ^f
Polychlorinated biphenyls (PCBs)	PCBs	C	25	TSCA ^g
Bis(2-ethylhexyl)phthalate (DEHP)	SVOC	C	1,600	Calculated Subpart S
Bromoform (tribromomethane)	SVOC	C	89	Calculated Subpart S

Proposed Closure Goals
Hawthorne Army Depot
Hawthorne, Nevada

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Butyl benzyl phthalate	SVOC	NC	16,000	Calculated Subpart S
Dibromochloromethane	SVOC	C	83	Calculated Subpart S
Dibutyl-phthalate	SVOC	NC	8,000	Calculated Subpart S
Diethyl phthalate	SVOC	NC	64,000	Calculated Subpart S
Phenanthrene	SVOC	NC	-	NA
Phenol	SVOC	NC	48,000	Calculated Subpart S
Acetone	VOC	NC	800	Calculated Subpart S
Anthracene	VOC	NC	24,000	Calculated Subpart S
Benzene	VOC	C	24	Calculated Subpart S
Bis(2-chloroisopropyl)ether	VOC	C	3,200	Calculated Subpart S
Bromomethane	VOC	NC	112	Calculated Subpart S
Carbon tetrachloride	VOC	C	5	Calculated Subpart S
Chlorobenzene	VOC	NC	1,600	Calculated Subpart S
Chloroform	VOC	C	115	Calculated Subpart S
Chloromethane	VOC	C	538	Calculated Subpart S
Dibromomethane	VOC	C	0.008	Calculated Subpart S
1,2-Dichlorobenzene	VOC	NC	7,200	Calculated Subpart S
1,4-Dichlorobenzene	VOC	C	18,300	Calculated Subpart S
Dichlorodifluoromethane	VOC	C	16,000	Calculated Subpart S
Ethylbenzene	VOC	NC	8,000	Calculated Subpart S
Methylene bromide	VOC	NC	800	Calculated Subpart S
Methylene chloride	VOC	C	4,800	Calculated Subpart S
2-Methylnaphthalene	VOC	-	-	NA
1,1,2,2-Tetrachloroethane	VOC	C	35	Calculated Subpart S
Tetrachloroethylene (PCE)	VOC	C & NC	800	Calculated Subpart S
Toluene	VOC	NC	16,000	Calculated Subpart S
1,1,1-Trichloroethane	VOC	NC	7,200	Calculated Subpart S
Trichloroethylene (TCE)	VOC	C & NC	480	Calculated Subpart S
Trichlorofluoromethane	VOC	NC	24,000	Calculated Subpart S
1,2,3-Trichloropropane	VOC	C	480	Calculated Subpart S
Vinyl chloride	VOC	C	0.37	Calculated Subpart S
Xylene Total (m-, o-, p-)	VOC	NC	160,000	Calculated Subpart S
2,3,7,8-TCDD	Dioxin	C	0.000005	Calculated Subpart S

^a RCRA 55 FR 30870

^b Not available

^c Highest background concentration detected in 50 background soil samples

^d Smucker, Stanford J. USEPA Region IX, Preliminary Remedial Goals, Second Half, Sep. 1995

^e Method detection limit for Volatile Organic Compounds by EPA Method 8260 or

^f Semi-Volatile Organic Compounds analyzed by EPA Method 8270

^g Nevada Division of Environmental Protection

^h Cleanup level for PCB spills in accordance with Toxic Substance and Control Act Spill Policy Guidelines 40 CFR 761

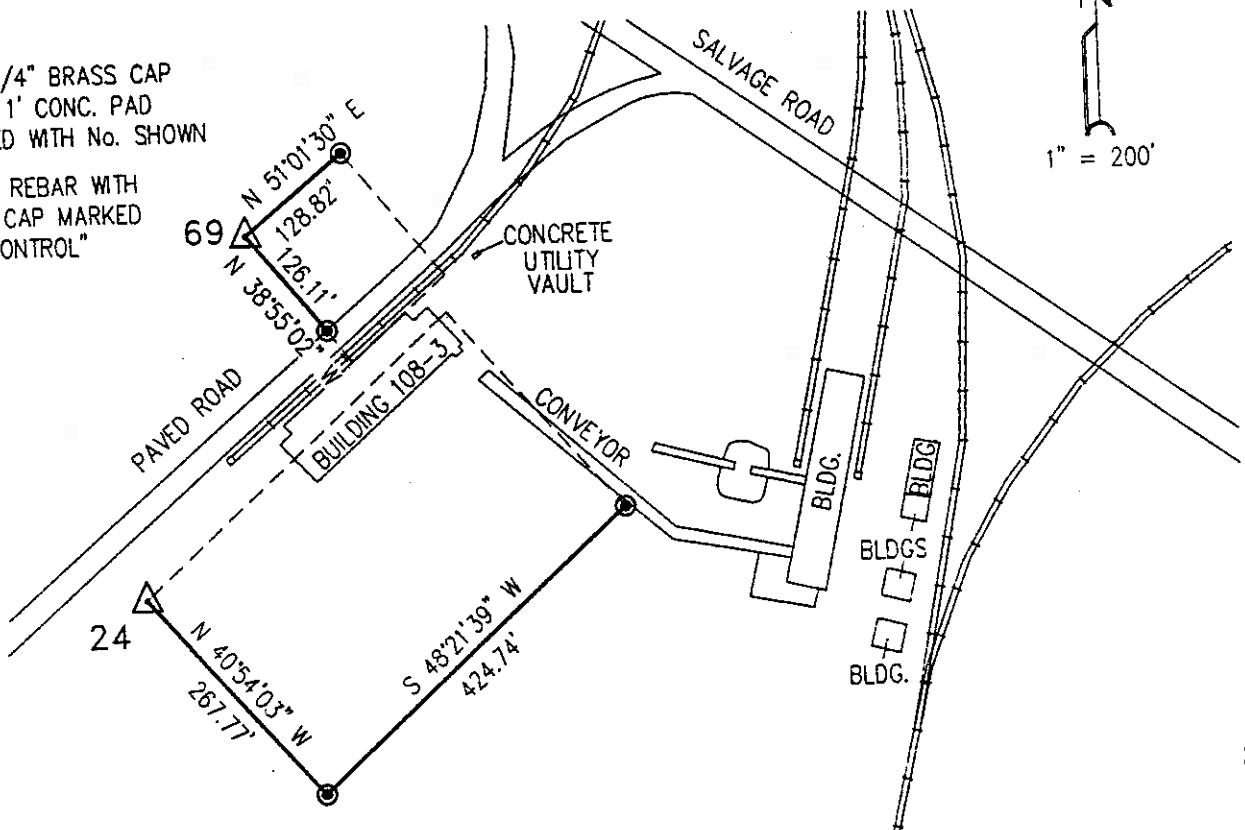
Appendix B

COUNTRY USA	TYPE OF MARK BRASS CAP	STATION Z4	ELEVATION 4119.36 (FT) (M)
LOCALITY HAWTHORNE NEV.	STAMPING ON MARK Z4 J-28	AGENCY (CAST IN MARKS) COE HWAAP	DATUM NGVD '29
LATITUDE 38°34'23.52208" N	LONGITUDE 118°37'05.56703" W	DATUM NAD '27	ESTABLISHED BY AGENCY A.L.S.
(NORTHING)(EASTING) 1391775.39 (FT) (M)	(EASTING)(NORTHING) 490028.41 (FT) (M)	GRID AND ZONE NEVADA SP WEST	DATE 1997 ORDER 2 ND
TO OBTAIN GRID AZIMUTH, ADD GRID AZ. (ADD)(SUB.) TO THE GEODETIC AZIMUTH			
TO OBTAIN GRID AZ. (ADD)(SUB.) TO THE GEODETIC AZIMUTH			
OBJECT	AZIMUTH OR DIRECTION (GEODETIC)(GRID) (MAGNETIC)	BACK AZIMUTH	GRID DISTANCE (METERS) FEET) GRID DISTANCE (METERS) FEET)

MONUMENTS 24 AND 69 - SWMU'S J-28 AND J-28a
 FROM HIGHWAY 95 TAKE THORNE ROAD NORTHEAST 3 MILES TO SALVAGE
 ROAD, THEN GO NORTHWEST 1600 FEET ON SALVAGE ROAD, THEN SOUTHWEST
 600 FEET TO BUILDING 108-3. SEE MAP BELOW. MONUMENTS ARE 3 1/4"
 BRASS CAPS SET IN 1' X 1' CONCRETE PADS AND ARE MARKED WITH 4" X
 4" X 6' WOOD POSTS, PAINTED WHITE.

- ▲ FD. 3 1/4" BRASS CAP
IN 1' X 1' CONC. PAD
STAMPED WITH NO. SHOWN

- SET #5 REBAR WITH
NYLON CAP MARKED
"ALS CONTROL"



SKETCH

DA FORM 1959 OCT 64

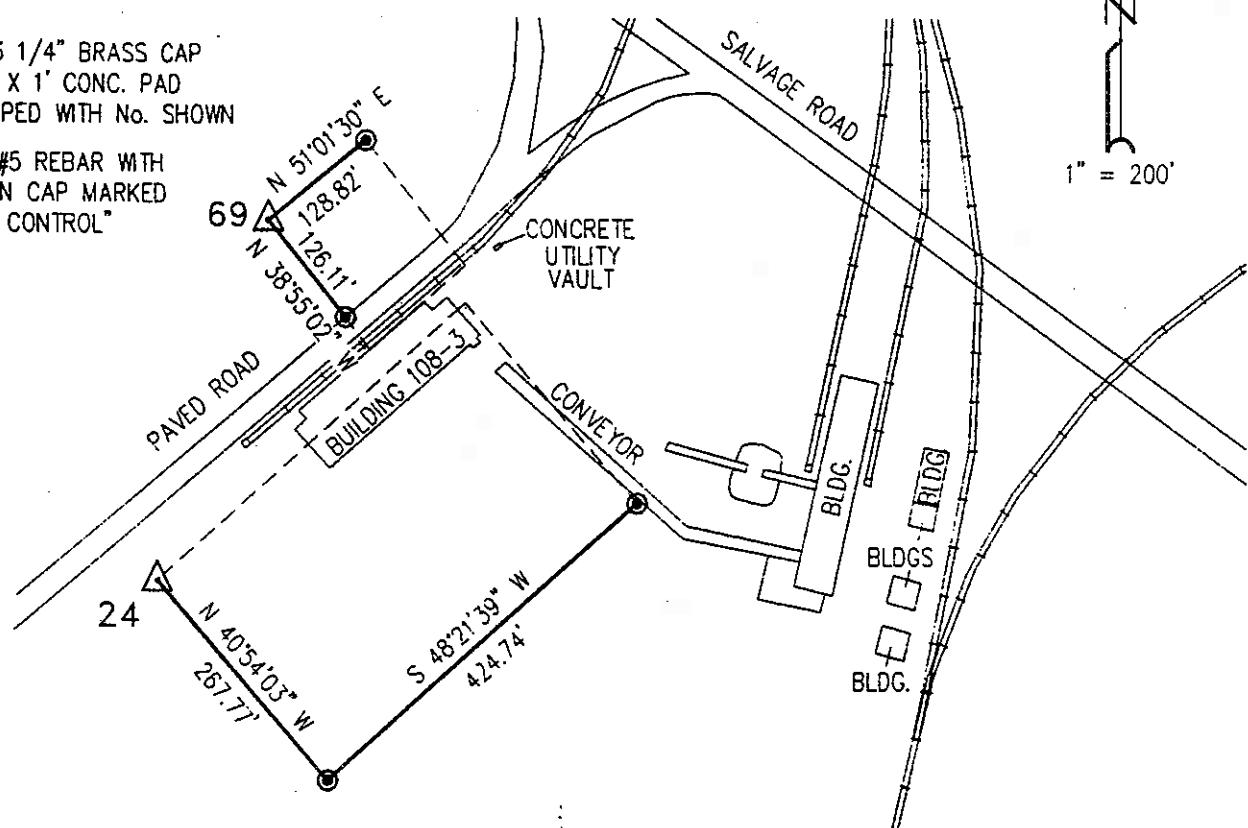
REPLACES DA FORMS 1958
AND 1960, 1 FEB 57, WHICH
ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
 For use of this form, see TM 5-237; the proponent
 agency is TRADOC.

COUNTRY USA	TYPE OF MARK BRASS CAP	STATION 69	
LOCALITY HAWTHORNE NEV	STAMPING ON MARK 69 J-28A	AGENCY (CAST IN MARKS) COE HWAAP	ELEVATION 4119.40 <small>(FT) (M)</small>
LATITUDE 38°34'27.13543" N	LONGITUDE 118°37'04.11886" W	DATUM NAD '27	DATUM NGVD '29
(NORTHING)(EASTING) 1392140.85	(EASTING)(NORTHING) 490143.55	GRID AND ZONE NEVADA SP WEST	ESTABLISHED BY (AGENCY) A.L.S.
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE (FT) (M)	DATE 1997
TO OBTAIN GRID AZIMUTH, ADD		TO THE GEODETIC AZIMUTH	
TO OBTAIN GRID AZ. (ADD)(SUB.)		TO THE GEODETIC AZIMUTH	
OBJECT	AZIMUTH OR DIRECTION (GEODETIC)(GRID) (MAGNETIC)	BACK AZIMUTH	GEOG. DISTANCE (METERS) (FEET)
			GRID DISTANCE (METERS) (FEET)

MONUMENTS 24 AND 69 - SWMU'S J-28 AND J-28a
 FROM HIGHWAY 95 TAKE THORNE ROAD NORTHEAST 3 MILES TO SALVAGE
 ROAD, THEN GO NORTHWEST 1600 FEET ON SALVAGE ROAD, THEN SOUTHWEST
 600 FEET TO BUILDING 108-3. SEE MAP BELOW. MONUMENTS ARE 3 1/4"
 BRASS CAPS SET IN 1' X 1' CONCRETE PADS AND ARE MARKED WITH 4" X
 4" X 6' WOOD POSTS, PAINTED WHITE.

- Ⓐ FD. 3 1/4" BRASS CAP
IN 1' X 1' CONC. PAD
STAMPED WITH No. SHOWN
- Ⓑ SET #5 REBAR WITH
NYLON CAP MARKED
"ALS CONTROL"



SKETCH

DA FORM 1959 1 OCT 64

REPLACES DA FORMS 1959
AND 1960, 1 FEB 57, WHICH
ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
 For use of this form, see TM 5-237; the proponent
 agency is TRADOC.

NOTES ON COMPLETION OF FORM

1. GENERAL: This form may be used in the field or, as an office form to record and publish positions, descriptions, and related data.

2. FIELD USE OF FORM: The information required should be obtained and recorded *AT THE STATION SITE*. The field engineer should fill in only the information available and applicable to field use. In general, the geographic and grid positions, azimuths, distances, and elevations should not be filled in at field level except when the information is required for an immediate specific purpose.

a. ORIGINAL DESCRIPTION OF NEW STATION: The type of mark used for the station, reference marks, and azimuth marks, and a description of each must be given in the text of the description. If a disk is used, the identity of the agency whose name is cast in the disk and all of the letters and numbers stamped on the mark which identify the organization establishing or setting the mark should be given. In many areas the use of disks is not desirable because of their loss, due to vandalism or superstition. Less conspicuous marks should be used under these conditions. This requires exact statements of the character of the marks. Information for all marks as to the elevation above or below ground and approximate elevation above or below nearby prominent features is important. At least three measurements within .01 foot should be made from the station to any permanent marks, features, or structures that would permit re-locating the spot where an instrument was centered.

Good judgment should be exercised as to how far these measurements should be made. It is recommended that they be made to items which are not in the immediate vicinity of the station. Angles should also be turned to these items, particularly where no azimuth mark or marks have been established.

b. VIEW: Provide information on height of tower or stand used in occupying or establishing the station and information on view from a normal tripod, i.e., a 50-foot tower was used at the station; view from a tripod height is clear to the south and east but is obstructed by rise in ground (by 50 foot trees) to the north and west.

c. PHOTOGRAPHIC IDENTIFICATION: Provide when possible, two measurements from the station to natural or cultural features which might be visible on aerial photography and a description of the terrain. If photographs are available identify the station thereon and note estimated accuracy of the identification.

d. NOTES ON RECOVERED STATIONS: A diligent search should be made for *ALL* previously established stations in the vicinity and no station should be reported as destroyed unless conclusive evidence of destruction is present. A statement of the diligence of the search and reason for the non-recovery of a previously established mark is required. If the spot where a station mark was located can be reproduced by measurement given in the description, the station is not destroyed. The reproduced spot should be tied in by azimuth and distance and the estimated accuracy of the reproduced location given. If a new mark is set in the exact location of a previously established but destroyed mark, the designation of the station should be identical with the original with only a new date added to its designation. If a new disk is set in the approximate location of the old station, the name should be preserved but the number "2" and a new date should be added.

(DESCRIBED) (RECOVERED) BY

PROJECT

DATE

FIELD BOOK

SWMU J28 Survey Data
Hawthorne Army Depot
Hawthorne, Nevada

SWMU	Point ID	Northing (feet)	Easting (feet)	Elevation
J28	HWAAP-24-1996	1391775.38	490028.41	4119.36
J28	Pin 1	1391855.20	490521.16	NE
J28	HWAAP-69-1996	1392140.84	490143.56	4119.40
J28	Pin 1	1392221.87	490243.71	NE
J28	Pin 2	1392042.73	490222.78	NE
J28	SB01	1392136.91	490214.83	NE
J28	SB02	1391800.98	490253.13	NE
J28	SB03	1391739.80	490222.96	NE
J28	SB04	1391805.05	490132.34	NE
J28	SB05	1391846.63	490263.71	NE
J28	SB06	1391762.29	490244.23	NE
J28	SB07	1391701.29	490282.36	NE
J28	SB08	1391928.99	490412.85	NE
J28	SB09	1391843.18	490132.42	NE
J28	SB10	1392142.07	490217.67	NE
J28	SD01	1391909.63	490263.53	NE
J28	SD02	1392046.10	490289.53	NE
J28	SG01	1392123.05	490202.01	NE
J28	SG02	1392121.19	490238.41	NE
J28	SG03	1392154.26	490229.10	NE
J28	SG04	1392090.83	490244.73	NE
J28	SG05	1391801.90	490177.38	NE
J28	SG06	1391864.49	490271.12	NE
J28	SG07	1391877.35	490275.51	NE
J28	SG08	1391848.40	490297.74	NE
J28	SG09	1391888.51	490372.55	NE
J28	SG10	1391842.28	490463.60	NE
J28	SG11	1391827.88	490350.05	NE
J28	SG12	1391753.51	490300.71	NE
J28	SG12	1391753.51	490300.71	NE
J28	SG13	1392095.56	490218.55	NE
J28	SG14	1392152.81	490202.84	NE
J28	SG15	1392183.61	490227.86	NE
J28	SG16	1392127.60	490296.71	NE
J28	SG17	1391835.16	490203.36	NE
J28	SG18	1391775.92	490152.76	NE
J28	SG19	1391692.53	490182.84	NE
J28	SG20	1391783.04	490385.50	NE
J28	SG22	1391964.68	490385.05	NE
J28	SS01	1392131.17	490214.65	NE
J28	SS02	1392158.83	490215.66	NE
J28	SS03	1392123.05	490220.42	NE
J28	SS04	1391819.40	490256.70	NE
J28	SS05	1391798.43	490303.65	NE
J28	SS06	1391764.71	490214.30	NE
J28	SS07	1391729.62	490257.61	NE
J28	SS08	1391808.83	490350.95	NE
J28	SS09	1391802.99	490385.5	NE

SWMU J28 Survey Data
Hawthorne Army Depot
Hawthorne, Nevada

SWMU	Point ID	Northing (feet)	Easting (feet)	Elevation
J28	SS10	1391833.18	490315.59	NE
J28	SS11	1391748.30	490152.30	NE
J28	SS12	1391706.38	490228.89	NE
J28	SS13	1391704.10	490320.06	NE
J28	SS14	1391763.34	490359.27	NE

Notes.

NE = Not established.

Coordinate data based on electronic map file using the NAD 1927 datum.

Elevation data based on surveyors map using NGVD 1929 datum.

Appendix C

Method 6010 (BCA)
Metals

Sample ID	Location ID	Sample Date	Depth (feet)	Lithology	Aluminum mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Selenium mg/kg	Silver mg/kg	Chromium mg/kg	Lead mg/kg
J28-SD01-1-S	SD01	7/9/94	0	BCA	<5	64	0.7	<6	<1	11	41 J	
J28-SD02-1-S	SD02	7/9/94	0	BCA	<5	70	2.3	<6	<1	25	200	
J28-SS01-1-S	SS01	7/9/94	0	BCA	18 J	77	1.7	<5	<1	56	300	
J28-DP008	SS01	7/9/94	0	BCA	4.4 J	77	1	<5	<1	72	390	
J28-DP009	SS01	7/9/94	0	BCA	<5	190	22	<6	<1	37	78	
J28-SS02-1-S	SS02	7/9/94	0	BCA	NA	14 J	43	0.88	<5	<1	2 J	9.2 J
J28-SS03-1-S	SS03	7/9/94	0	BCA	NA	13 J	38	0.88	<5	<0.9	2.5 J	<5
J28-SS04-1-S	SS04	7/9/94	0	BCA	NA	38 J	100	3.3	<5	<1	15	52 J
J28-SS05-1-S	SS05	7/9/94	0	BCA	NA	39 J	110	2.4	<5	<1	9	52 J
J28-SS06-1-S	SS06	7/9/94	0	BCA	NA	24 J	120	3.8	<5	<1	26	43 J
J28-SS07-1-S	SS07	7/9/94	0	BCA	NA	6.4 J	180	40	<6	<1.1	46	94
J28-SS08-1-S	SS08	7/9/94	0	BCA	NA	<4	47	<0.2	<5	<0.9	2 J	13 J
J28-SS09-1-S	SS09	7/9/94	0	BCA	NA	<4	37	<0.2	<5	<0.9	1.4 J	5.8 J
J28-SS10-1-S	SS10	7/9/94	0	BCA	NA	<4	53	<0.2	<5	<0.9	1.9 J	6.6 J
J28-SS11-1-S	SS11	7/9/94	0	BCA	NA	<4	37	1.2	<5	<0.9	4.2 J	34 J
J28-SS12-1-S	SS12	7/9/94	0	BCA	NA	<4	44	5.5	<5	<0.9	11	10 J
J28-SS13-1-S	SS13	7/9/94	0	BCA	NA	<5	18	<0.2	<6	<1	0.8 J	<6
J28-SS14-1-S	SS14	7/9/94	0	BCA	NA	5.7 J	52	<0.2	<5	<0.9	2.5 J	6.4 J
<hr/>												
Analyses					0	18	18	18	18	18	18	18
Detections					0	9	18	13	0	0	18	16
Minimum Concentration					0	4.4	18	0.7	0	0	0.8	5.8
Maximum Concentration					0	39	190	40	0	0	72	390
<hr/>												
HWAD - PCG					80000	100	2000	20	20	100	20	100
HWAD - PCG Hits					0	0	0	2	0	0	6	3
<hr/>												
Maximum Background Concentration					12365	18.1	447	1.08	0	0	13.76	16.7
Background Hits					0	3	0	9	0	0	7	10

Duplicate Samples:
J28-DP008 is a duplicate sample of J28-SS01-1-S.
J28-DP009 is a duplicate sample of J28-SS01-1-S.

Mercury
Method 7471 (BCA)

Sample ID	Location ID	Date	Depth (feet)	Lab	Mercury
					mg/kg
J28-SD01-1-S	SD01	7/9/94	0	BCA	0.081
J28-SD02-1-S	SD02	7/9/94	0	BCA	<0.05
J28-SS01-1-S	SS01	7/9/94	0	BCA	0.1
J28-DP008	SS01	7/9/94	0	BCA	0.059
J28-DP009	SS01	7/9/94	0	BCA	<0.05
J28-SS02-1-S	SS02	7/9/94	0	BCA	<0.04
J28-SS03-1-S	SS03	7/9/94	0	BCA	<0.04
J28-SS04-1-S	SS04	7/9/94	0	BCA	<0.04
J28-SS05-1-S	SS05	7/9/94	0	BCA	<0.04
J28-SS06-1-S	SS06	7/9/94	0	BCA	0.13
J28-SS07-1-S	SS07	7/9/94	0	BCA	<0.05
J28-SS08-1-S	SS08	7/9/94	0	BCA	<0.04
J28-SS09-1-S	SS09	7/9/94	0	BCA	<0.04
J28-SS10-1-S	SS10	7/9/94	0	BCA	<0.04
J28-SS11-1-S	SS11	7/9/94	0	BCA	<0.04
J28-SS12-1-S	SS12	7/9/94	0	BCA	<0.04
J28-SS13-1-S	SS13	7/9/94	0	BCA	<0.05
J28-SS14-1-S	SS14	7/9/94	0	BCA	<0.04
<hr/>					
Analyses					18
Detections					4
Minimum Concentration					0.059
Maximum Concentration					0.13
<hr/>					
HWAD - PCG					24
HWAD - PCG Hits					0
<hr/>					
Maximum Background Concentration					0.108
Background Hits					1
<hr/>					

Duplicate Samples:

J28-DP008 is a duplicate sample of J28-SS01-1-S.
J28-DP009 is a duplicate sample of J28-SS01-1-S.

OC F. Dioxides and PCBs
Method 8081 (APCL)

Sample ID	Location ID	Sample Date (feet)	Depth (feet)	Lab	4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	alpha-BHC	AROC-1016	AROC-1221	AROC-1232	AROC-1242	AROC-1248	AROC-1254	AROC-1260	
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
J28-SB10-1-S	SB10	2/18/97	15	APCL	NA	NA	NA	NA	<0.0036	<0.0045	<0.300001E-03	<0.0097	<0.0075	<0.0053	<0.0092		
Analyses				0	0	0	0	1	1	1	1	1	1	1	1	1	
Detections				0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	
Maximum Concentration				0	0	0	0	0	0	0	0	0	0	0	0	0	
HWAD - PCG				NE	NE	NE	NE	25	25	25	25	25	25	25	25	25	
HWAD - PCG Hits				NE	NE	NE	NE	0	0	0	0	0	0	0	0	0	

Notes:
 NA = Not analyzed
 NE = Not established

OC Pesticides and PCBs
Method 8081 (APCI)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Chlordane	delta-BHC	beta-BHC	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J28-SB10-1-S	SB10	2/18/97	15	APCL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Analyses					0	0	0	0	0	0	0	0	0	0	0	0	0	0
Detections					0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration					NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HWAD - PCG					NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HWAD - PCG Hits					NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

Notes:

NA = Not analyzed
NE = Not established

Explosives
Method 8090M (BCA Field)

Sample ID	Location ID	Sample Date (feet)	Lab	1,3,5-Trinitrobenzene	2,3-Dinitrotoluene	2,4,6-Trinitrotoluene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Nitrotoluene	3-Nitrotoluene	4-Nitrotoluene	Nitrobenzene	
J28-SD01-1-S	SD01	7/9/94	0	BCA Field	<175 mg/kg	<87.5 mg/kg	NA	<87.5 mg/kg	<87.5 mg/kg	<87.5 mg/kg	<87.5 mg/kg	<87.5 mg/kg	
J28-SS01-0-S	SS01	7/9/94	0	BCA Field	<25 mg	<12.5 mg	NA	<12.5 mg	<12.5 mg	<12.5 mg	<12.5 mg	<12.5 mg	
J28-SS01-1-S	SS01	7/9/94	0	BCA Field	<5 mg	<2.5 mg	NA	<2.5 mg	<2.5 mg	<2.5 mg	<2.5 mg	<2.5 mg	
J28-DP012	SS01	7/9/94	0	BCA Field	<5 mg	<2.5 mg	NA	<2.5 mg	<2.5 mg	<2.5 mg	<2.5 mg	<2.5 mg	
J28-SS02-1-S	SS02	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS03-1-S	SS03	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS04-1-S	SS04	7/9/94	0	BCA Field	<1.25 mg	<1.25 mg	NA	<1.25 mg	<1.25 mg	<1.25 mg	<1.25 mg	<1.25 mg	
J28-SS05-1-S	SS05	7/9/94	0	BCA Field	<1.25 mg	<1.25 mg	NA	<1.25 mg	<1.25 mg	<1.25 mg	<1.25 mg	<1.25 mg	
J28-SS06-1-S	SS06	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS07-0-S	SS07	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS07-1-S	SS07	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-DP014	SS07	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS08-1-S	SS08	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS09-1-S	SS09	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS10-1-S	SS10	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS11-1-S	SS11	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS12-1-S	SS12	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS13-1-S	SS13	7/9/94	0	BCA Field	<0.5 mg ^R	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
J28-SS14-1-S	SS14	7/9/94	0	BCA Field	<0.5 mg	<0.25 mg	NA	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	<0.25 mg	
Analyses		19	19	0	19	19	19	19	19	19	19	19	19
Detections		0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration		0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration		0	0	0	0	0	0	0	0	0	0	0	0

Emissions
Method 8090M (BCA Field)

Sample ID	Location ID	Depth (feet)	Lab	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HWAD - PCG		4	8	NE	233	2.6	80	800	800
HWAD - PCG Hits		0	0	NE	0	0	0	0	40
									0
									0

Notes:

NA = Not analyzed

NE = Not established

Duplicate Samples:
J28-DP012 is a duplicate sample of J28-SS01-1-S.
J28-DP014 is a duplicate sample of J28-SS07-1-S.

.plosives
Method 8090M (BCA Field)

Sample ID	Location ID	Depth (feet)	La	Ce	DX	Fe_{tot}	mg/kg
J28-SD01-1-S	SD01	7/9/94	0	BCA Field	<17500 R	<87.5 U-	
J28-SS01-0-S	SS01	7/9/94	0	BCA Field	<2500 R	<12.5	
J28-SS01-1-S	SS01	7/9/94	0	BCA Field	<500 R	<2.5	
J28-DP012	SS01	7/9/94	0	BCA Field	<500 R	<2.5	
J28-SS02-1-S	SS02	7/9/94	0	BCA Field	<50 R	<0.5	
J28-SS03-1-S	SS03	7/9/94	0	BCA Field	<50 R	<0.5	
J28-SS04-1-S	SS04	7/9/94	0	BCA Field	<250 R	<1.25	
J28-SS05-1-S	SS05	7/9/94	0	BCA Field	<250 R	<1.25	
J28-SS06-1-S	SS06	7/9/94	0	BCA Field	<50 R	<0.5	
J28-SS07-0-S	SS07	7/9/94	0	BCA Field	<50 R	<0.25	
J28-SS07-1-S	SS07	7/9/94	0	BCA Field	<50 R	<0.25	
J28-DP014	SS07	7/9/94	0	BCA Field	<50 R	<0.5	
J28-SS08-1-S	SS08	7/9/94	0	BCA Field	<50 R	<0.5	
J28-SS09-1-S	SS09	7/9/94	0	BCA Field	<50 R	<0.5	
J28-SS10-1-S	SS10	7/9/94	0	BCA Field	<50 R	<0.5	
J28-SS11-1-S	SS11	7/9/94	0	BCA Field	<50 R	<0.5	
J28-SS12-1-S	SS12	7/9/94	0	BCA Field	<50 R	<0.5	
J28-SS13-1-S	SS13	7/9/94	0	BCA Field	<50 R	<0.25	
J28-SS14-1-S	SS14	7/9/94	0	BCA Field	<50 R	<0.5	
					19	19	
Analyses							
Detections					0	0	
Minimum Concentration					0	0	
Maximum Concentration					0	0	

Environmental
Safeties
Method 8090M (BCA Field)

Sample ID	Location ID	Sample Date (feet)	g	DX	Tetryl
			mg/kg	mg/kg	mg/kg
HWAD - PCG			64	800	
HWAD - PCG Hits			0	0	

Notes:

NA = Not analyzed

NE = Not established

Duplicate Samples:

J28-DP012 is a duplicate sample of J28-SS01-1-S.
J28-DP014 is a duplicate sample of J28-SS07-1-S.

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	n-Butylbenzene	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Toluene	trans-1,2-Dichloroethylene	trans-1,3-Dichloropropene	Trichloroethylene	
J28-SB05-1-S	SB05	2/12/97	0.5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0004	
J28-SB05-2-S	SB05	2/12/97	22.5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB05-3-S	SB05	2/12/97	37.5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB06-1-S	SB06	2/19/97	10.5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB06-2-S	SB06	2/19/97	25	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB06-3-S	SB06	2/19/97	34.5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB06-4-S	SB06	2/19/97	25	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB07-1-S	SB07	2/13/97	2	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB07-2-S	SB07	2/13/97	24	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB07-3-S	SB07	2/13/97	38	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB08-1-S	SB08	2/12/97	2	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB08A-2-S	SB08A	2/12/97	27.5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB08A-3-S	SB08A	2/12/97	40	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB09-1-S	SB09	2/13/97	19.5	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB09-2-S	SB09	2/13/97	29	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB09-3-S	SB09	2/13/97	42	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB09-4-S	SB09	2/13/97	56	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB09-5-S	SB09	2/14/97	75	APCL	<0.0003	<0.0001	<0.0001	<0.0001	<0.0003	<0.0001	<0.0003	<0.0005	
J28-SB09-6-S	SB09	2/14/97	75	APCL	<0.0003	<0.0001	<0.0001	<0.0001	<0.0003	<0.0001	<0.0003	<0.0005	
J28-SB10-1-S	SB10	2/18/97	15	APCL	<0.0003	<0.0001	<0.0001	<0.0001	<0.0003	<0.0001	<0.0003	<0.0005	
J28-SB10-2-S	SB10	2/18/97	30	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB10-3-S	SB10	2/18/97	30	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB10-4-S	SB10	2/18/97	45	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB10-5-S	SB10	2/19/97	60	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0004	
J28-SB10-6-S	SB10	2/19/97	74	APCL	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0002	<0.0005	
J28-SB10-7-S	SB10	2/19/97	90	APCL	<0.0003	<0.0001	<0.0001	<0.0001	<0.0003	<0.0001	<0.0003	<0.0005	
Analyses			26		26	26	26	26	26	26	26	11	26
Detections			0		0	0	0	0	0	0	0	0	0
Minimum Concentration			0		0	0	0	0	0	0	0	0	0
Maximum Concentration			0		0	0	0	0	0	0	0	0	0

JCS
Method 8260A (APCL)

Sample ID	Location ID	Depth (feet)	Lab	n-Butylbenzene	n-Propylbenzene	O-Xylene	sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	trans-1,3-Dichloropropene	Trichloroethylene	
HWAD - PCG				NE	NE	3200	160000	NE	NE	15	16000	NE	NE	10
HWAD - PCG Hits				NE	NE	0	0	NE	NE	0	0	NE	NE	0

Notes:

NA = Not analyzed
NE = Not established

Duplicate Samples:

J2B-SB09-6-S is a duplicate sample of J2B-SB09-5-S.
J2B-SB10-3-S is a duplicate sample of J2B-SB10-2-S.

VOCS
Method 8260A (APCI)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	mg/kg						
J28-SB05-1-S	SB05	2/12/97	0.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB05-2-S	SB05	2/12/97	22.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB05-3-S	SB05	2/12/97	37.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB06-1-S	SB06	2/19/97	10.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB06-2-S	SB06	2/19/97	25	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB06-3-S	SB06	2/19/97	34.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB06-4-S	SB06	2/19/97	25	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB07-1-S	SB07	2/13/97	2	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB07-2-S	SB07	2/13/97	24	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB07-3-S	SB07	2/13/97	38	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB08-1-S	SB08	2/12/97	2	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB08A-2-S	SB08A	2/12/97	27.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB08A-3-S	SB08A	2/12/97	40	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-1-S	SB09	2/13/97	19.5	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-2-S	SB09	2/13/97	29	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-3-S	SB09	2/13/97	42	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-4-S	SB09	2/13/97	56	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-5-S	SB09	2/14/97	75	APCL	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003
J28-SB09-6-S	SB09	2/14/97	75	APCL	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003
J28-SB10-1-S	SB10	2/18/97	15	APCL	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003
J28-SB10-2-S	SB10	2/18/97	30	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-3-S	SB10	2/18/97	30	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-4-S	SB10	2/18/97	45	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-5-S	SB10	2/19/97	60	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-6-S	SB10	2/19/97	74	APCL	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-7-S	SB10	2/19/97	90	APCL	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003
					26	26	26	26	26	26	26
Analyses					0	0	0	0	0	0	0
Detections					0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0

Method 8260A (APCL)

Sample ID	Location ID	Date (feet)	Sample Depth (feet)	L _{ab}	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HWAD - PCG			24000	24000	NE	7200	35	NE	NE	NE
HWAD - PCG - Hts			0	0	NE	0	0	NE	NE	NE
<hr/>										
Notes:										
NA = Not analyzed										
NE = Not established										

Duplicate Samples:
 J28-SB09-8-S is a duplicate sample of J28-SB09-5-S.
 J28-SB10-3-S is a duplicate sample of J28-SB10-2-S.

VOCS
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	mg/kg							
J28-SB05-1-S	SB05	2/12/97	0.5	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB05-2-S	SB05	2/12/97	22.5	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB05-3-S	SB05	2/12/97	37.5	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB06-1-S	SB06	2/19/97	10.5	APCL	<0.0001	<0.0006	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB06-2-S	SB06	2/19/97	25	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB06-3-S	SB06	2/19/97	34.5	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB06-4-S	SB06	2/19/97	25	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB07-1-S	SB07	2/13/97	2	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB07-2-S	SB07	2/13/97	24	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB07-3-S	SB07	2/13/97	38	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB08-1-S	SB08	2/12/97	2	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB08A-2-S	SB08A	2/12/97	27.5	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB08A-3-S	SB08A	2/12/97	40	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-1-S	SB09	2/13/97	19.5	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-2-S	SB09	2/13/97	29	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-3-S	SB09	2/13/97	42	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-4-S	SB09	2/13/97	56	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB09-5-S	SB09	2/14/97	75	APCL	<0.0001	<0.0007	<0.0001	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003
J28-SB09-6-S	SB09	2/14/97	75	APCL	<0.0001	<0.0007	<0.0001	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003
J28-SB10-1-S	SB10	2/18/97	15	APCL	<0.0001	<0.0007	<0.0001	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003
J28-SB10-2-S	SB10	2/18/97	30	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-3-S	SB10	2/18/97	30	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-4-S	SB10	2/18/97	45	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-5-S	SB10	2/19/97	60	APCL	<0.0001	<0.0005	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-6-S	SB10	2/19/97	74	APCL	<0.0001	<0.0006	<0.0001	<0.0002	<0.0001	<0.0002	<0.0001	<0.0002
J28-SB10-7-S	SB10	2/19/97	90	APCL	<0.0001	<0.0007	<0.0001	<0.0003	<0.0001	<0.0003	<0.0001	<0.0003
Analyses			26		26	26	26	26	26	26	26	26
Detections			0	0	0	0	0	0	0	0	0	0
Minimum Concentration			0	0	0	0	0	0	0	0	0	0
Maximum Concentration			0	0	0	0	0	0	0	0	0	0

Sample ID	Location ID	Date (feet)	Sample Depth (feet)	Lab	mg/kg						
HWAD - PCG					NE	0.008	7200	NE	NE	150	NE
HWAD - PCG Hits					NE	0	0	NE	NE	0	NE

Notes:
NA = Not analyzed
NE = Not established

Duplicate Samples:
J28-SB09-6-S is a duplicate sample of J28-SB09-5-S.
J28-SB10-3-S is a duplicate sample of J28-SB10-2-S.

VOCs
Method 8260A (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	Chloroform							
					Benzene	Bromobenzene	Bromoform	Bromodichloromethane	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane
J28-SB05-1-S	SB05	2/12/97	0.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0002
J28-SB05-2-S	SB05	2/12/97	22.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0002
J28-SB05-3-S	SB05	2/12/97	37.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB06-1-S	SB06	2/19/97	10.5	APCL	<0.0002	<0.0001	<0.0006	<0.0002	<0.0003	<0.0001	<0.0008	<0.0003
J28-SB06-2-S	SB06	2/19/97	25	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0002	<0.0002
J28-SB06-3-S	SB06	2/19/97	34.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB06-4-S	SB06	2/19/97	25	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB07-1-S	SB07	2/13/97	2	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB07-2-S	SB07	2/13/97	24	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB07-3-S	SB07	2/13/97	38	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB08-1-S	SB08	2/12/97	2	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB08A-2-S	SB08A	2/12/97	27.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB08A-3-S	SB08A	2/12/97	40	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB09-1-S	SB09	2/13/97	19.5	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB09-2-S	SB09	2/13/97	29	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB09-3-S	SB09	2/13/97	42	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB09-4-S	SB09	2/13/97	56	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB09-5-S	SB09	2/14/97	75	APCL	<0.0003	<0.0001	<0.0007	<0.0003	<0.0004	<0.0001	<0.0007	<0.0003
J28-SB09-6-S	SB09	2/14/97	75	APCL	<0.0003	<0.0001	<0.0007	<0.0003	<0.0004	<0.0001	<0.0009	<0.0004
J28-SB10-1-S	SB10	2/18/97	15	APCL	<0.0003	<0.0001	<0.0007	<0.0003	<0.0004	<0.0001	<0.0009	<0.0004
J28-SB10-2-S	SB10	2/18/97	30	APCL	<0.0002	<0.0001	<0.0006	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB10-3-S	SB10	2/18/97	30	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB10-4-S	SB10	2/18/97	45	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB10-5-S	SB10	2/19/97	60	APCL	<0.0002	<0.0001	<0.0005	<0.0002	<0.0003	<0.0001	<0.0007	<0.0003
J28-SB10-6-S	SB10	2/19/97	74	APCL	<0.0002	<0.0001	<0.0006	<0.0002	<0.0003	<0.0001	<0.0008	<0.0003
J28-SB10-7-S	SB10	2/19/97	90	APCL	<0.0003	<0.0001	<0.0007	<0.0003	<0.0004	<0.0001	<0.0003	<0.0004
Analyses					26	26	26	26	26	26	26	26
Detections					0	0	0	0	0	0	0	0
Minimum Concentration					0	0	0	0	0	0	0	0
Maximum Concentration					0	0	0	0	0	0	0	0

CS
Method 8260A (APCI)

Sample ID	Location ID	Sample Depth (feet)	Lab	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromoformane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	
HWAD - PCG				NE	10	NE	NE	NE	89	112	10	2000	NE	120	538
HWAD - PCG Hts				NE	0	NE	NE	0	0	0	0	0	NE	0	0

Notes:

NA = Not analyzed
 NE = Not established

Duplicate Samples:

J2B-SB09-6-S is a duplicate sample of J2B-SB09-5-S.
 J2B-SB10-3-S is a duplicate sample of J2B-SB10-2-S.

VOCs
Method 8260A (APCI)

Sample ID	Location ID	Sample Date (feet)	Lab	mg/kg	MTE								
J28-SB05-1-S	SB05	2/12/97	0.5 APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0005	<0.0007	<0.0002	
J28-SB05-2-S	SB05	2/12/97	22.5 APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0005	<0.0007	<0.0002	
J28-SB05-3-S	SB05	2/12/97	37.5 APCL	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0005	<0.0007	<0.0002	
J28-SB06-1-S	SB06	2/19/97	10.5 APCL	<0.0002	<0.0001	<0.0006	<0.0002	<0.0001	<0.0002	<0.0006	<0.0008	<0.0002	
J28-SB06-2-S	SB06	2/19/97	25 APCL	<0.0002	<0.0001	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0006	<0.0007	<0.0002
J28-SB06-3-S	SB06	2/19/97	34.5 APCL	<0.0002	<0.0001	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0005	<0.0007	<0.0002
J28-SB06-4-S	SB06	2/19/97	25 APCL	<0.0002	<0.0001	<0.0002	<0.0005	<0.0009	<0.0002	<0.0001	<0.0002	<0.0005	<0.0002
J28-SB07-1-S	SB07	2/13/97	2 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0009	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB07-2-S	SB07	2/13/97	24 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB07-3-S	SB07	2/13/97	38 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB08-1-S	SB08	2/12/97	2 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB08A-2-S	SB08A	2/12/97	27.5 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB08A-3-S	SB08A	2/12/97	40 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB09-1-S	SB09	2/13/97	19.5 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB09-2-S	SB09	2/13/97	29 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB09-3-S	SB09	2/13/97	42 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB09-4-S	SB09	2/13/97	56 APCL	<0.0002	NA	<0.0002	<0.0009	<0.0005	<0.0002	<0.0001	<0.0002	<0.0007	<0.0002
J28-SB09-5-S	SB09	2/14/97	75 APCL	<0.0003	NA	<0.0003	<0.0007	<0.0003	<0.0001	<0.0003	<0.0003	<0.0009	<0.0003
J28-SB09-6-S	SB09	2/14/97	75 APCL	<0.0003	NA	<0.0003	<0.0007	<0.0003	<0.0001	<0.0003	<0.0003	<0.0009	<0.0003
J28-SB10-1-S	SB10	2/18/97	15 APCL	<0.0003	<0.0001	<0.0003	<0.0007	<0.0003	<0.0001	<0.0003	<0.0003	<0.0009	<0.0003
J28-SB10-2-S	SB10	2/18/97	30 APCL	<0.0002	<0.0001	<0.0002	<0.0005	<0.0009	<0.0001	<0.0002	<0.0002	<0.0007	<0.0002
J28-SB10-3-S	SB10	2/18/97	30 APCL	<0.0002	<0.0001	<0.0002	<0.0005	<0.0009	<0.0001	<0.0002	<0.0002	<0.0007	<0.0002
J28-SB10-4-S	SB10	2/18/97	45 APCL	<0.0002	<0.0001	<0.0002	<0.0005	<0.0009	<0.0001	<0.0002	<0.0002	<0.0007	<0.0002
J28-SB10-5-S	SB10	2/19/97	60 APCL	<0.0002	<0.0001	<0.0002	<0.0005	<0.0009	<0.0001	<0.0002	<0.0002	<0.0008	<0.0002
J28-SB10-6-S	SB10	2/19/97	74 APCL	<0.0002	<0.0001	<0.0002	<0.0006	<0.0009	<0.0001	<0.0002	<0.0002	<0.0008	<0.0002
J28-SB10-7-S	SB10	2/19/97	90 APCL	<0.0003	<0.0001	<0.0003	<0.0007	<0.0003	<0.0001	<0.0003	<0.0003	<0.001	<0.0003

Analyses
Detections
Minimum Concentration
Maximum Concentration

^{2S}
Method 8260A (APCL)

Sample ID	Location ID	Date (feet)	Sample Depth	Lab	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloropropane	Dibromomethane	Dichlorodifluoromethane	Ethylenes	Hexachlorobutadiene	Isopropylbenzene	m- α -P-Xylenes	Methylene chloride	TBEB	
HWAD - PCG			mg/kg	mg/kg	NE	NE	83	NE	800	16000	8000	NE	NE	160000	4800	NE
HWAD - PCG Hills			mg/kg	mg/kg	NE	NE	0	NE	0	0	0	NE	NE	0	0	NE

Notes:

NA = Not analyzed

NE = Not established

Duplicate Samples:

J28-SB08-6-S is a duplicate sample of J28-SB09-5-S.

J28-SB10-3-S is a duplicate sample of J28-SB10-2-S.

Explosives
Method 8330 (APCL)

Analyses	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Detections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum Concentration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Amino-2,6-dinitrotoluene															
2-Amino-4,6-dinitrotoluene															
Tetryl															
RDX															
Nitrobenzene															
HMX															
4-Nitrotoluene															
3-Nitrotoluene															
2-Nitrotoluene															
2,6-Dinitrotoluene															
2,4,6-Tinitrotoluene															
1,3,5-Tinitrobenzene															
1,3,5-Dinitrobenzene															
J28-SB05-1-S	SB05	2/12/97	0.5	APCL	<0.013	<0.026	<0.041	<0.027	<0.038	<0.074	<0.064	<0.074	<0.047	<0.057	<0.051
J28-SB05-2-S	SB05	2/12/97	22.5	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.074	<0.047	<0.057	<0.051
J28-SB05-3-S	SB05	2/12/97	37.5	APCL	<0.013	<0.025	<0.041	<0.026	<0.057	<0.073	<0.063	<0.073	<0.047	<0.056	<0.051
J28-SB06-1-S	SB06	2/19/97	10.5	APCL	<0.014	<0.028	<0.044	<0.029	<0.062	<0.079	<0.068	<0.079	<0.051	<0.061	<0.055
J28-SB06-2-S	SB06	2/19/97	25	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074	<0.063	<0.074	<0.047	<0.056	<0.051
J28-SB06-3-S	SB06	2/19/97	34.5	APCL	<0.014	<0.026	<0.042	<0.027	<0.059	<0.076	<0.065	<0.076	<0.048	<0.058	<0.053
J28-SB06-4-S	SB06	2/19/97	25	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074	<0.064	<0.074	<0.047	<0.056	<0.051
J28-SB07-1-S	SB07	2/13/97	2	APCL	<0.013	<0.025	<0.04	<0.026	<0.057	<0.073	<0.063	<0.073	<0.047	<0.056	<0.051
J28-SB07-2-S	SB07	2/13/97	24	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.075	<0.064	<0.075	<0.048	<0.057	<0.052
J28-SB07-3-S	SB07	2/13/97	38	APCL	<0.014	<0.026	<0.042	<0.027	<0.058	<0.075	<0.065	<0.075	<0.048	<0.057	<0.052
J28-SB08-1-S	SB08	2/12/97	2	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074	<0.063	<0.074	<0.047	<0.056	<0.051
J28-SB08A-2-S	SB08A	2/12/97	27.5	APCL	<0.014	<0.026	<0.042	<0.027	<0.059	<0.076	<0.065	<0.076	<0.048	<0.058	<0.053
J28-SB08A-3-S	SB08A	2/12/97	40	APCL	<0.013	<0.025	<0.041	<0.027	<0.057	<0.073	<0.063	<0.073	<0.047	<0.056	<0.051
J28-SB09-1-S	SB09	2/13/97	19.5	APCL	<0.013	<0.026	<0.041	<0.027	<0.058	<0.074	<0.064	<0.074	<0.047	<0.057	<0.052
J28-SB09-2-S	SB09	2/13/97	29	APCL	<0.014	<0.026	<0.042	<0.027	<0.059	<0.076	<0.066	<0.076	<0.049	<0.058	<0.053
J28-SB09-3-S	SB09	2/13/97	42	APCL	<0.014	<0.027	<0.043	<0.028	<0.06	<0.077	<0.066	<0.077	<0.049	<0.059	<0.053
J28-SB09-4-S	SB09	2/13/97	56	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074	<0.064	<0.074	<0.047	<0.056	<0.051
J28-SB09-5-S	SB09	2/14/97	75	APCL	<0.017	<0.033	<0.052	<0.034	<0.073	<0.094	<0.084	<0.094	<0.06	<0.072	<0.066
J28-SB09-6-S	SB09	2/14/97	75	APCL	<0.017	<0.033	<0.053	<0.034	<0.074	<0.095	<0.082	<0.095	<0.061	<0.072	<0.066
J28-SB10-1-S	SB10	2/18/97	15	APCL	<0.017	<0.033	<0.053	<0.034	<0.074	<0.096	<0.082	<0.085	<0.061	<0.072	<0.066
J28-SB10-2-S	SB10	2/18/97	30	APCL	<0.014	<0.026	<0.042	<0.027	<0.058	<0.075	<0.065	<0.075	<0.048	<0.057	<0.051
J28-SB10-3-S	SB10	2/18/97	30	APCL	<0.013	<0.026	<0.042	<0.027	<0.058	<0.075	<0.064	<0.075	<0.048	<0.057	<0.052
J28-SB10-4-S	SB10	2/18/97	45	APCL	<0.013	<0.026	<0.041	<0.027	<0.057	<0.074	<0.064	<0.074	<0.047	<0.056	<0.051
J28-SB10-5-S	SB10	2/19/97	60	APCL	<0.014	<0.027	<0.044	<0.028	<0.061	<0.078	<0.067	<0.078	<0.05	<0.054	<0.049
J28-SB10-6-S	SB10	2/19/97	74	APCL	<0.015	<0.028	<0.045	<0.029	<0.063	<0.081	<0.07	<0.081	<0.052	<0.056	<0.051

Ex-
essives
Method 8330 (APCL)

Sample ID	Location ID	Sample Depth (feet)	Lab	mg/kg										
HWAD - PCG		4		8	233	2.6	80	800	800	4000	40	64	800	NE
HWAD - PCG Hits		0		0	0	0	0	0	0	0	0	0	0	NE
														NE
														NE
														NE

Notes:
 NA = Not analyzed
 NE = Not established

Duplicate Samples:
 J28-SB09-6-S is a duplicate sample of J28-SB09-5-S.
 J28-SB10-3-S is a duplicate sample of J28-SB10-2-S.

Explosives
Method 83330 (Datastream)

Sample ID	Location ID	Sample Depth (feet)	Lab	Tetryl						RDX					
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J28-SD02-1-S	SD02	7/9/94	0	Datachem	0.39	u	<0.04	0.8	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09
J28-SS01-0-S	SS01	7/9/94	0	Datachem	<0.09	0.72	u	<0.04	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09
J28-SS01-1-S	SS01	7/9/94	0	Datachem	<0.09	<0.04	<0.19	<0.19	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09
J28-DP011	SS01	7/9/94	0	Datachem	<0.09	<0.04	<0.19	<0.19	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09
J28-DP013	SS07	7/9/94	0	Datachem	<0.09	<0.04	<0.19	<0.19	<0.19	<0.17	<0.46	<0.39	<0.74	<0.21	<0.09
Analyses				5	5	5	5	5	5	5	5	5	5	5	5
Detections				1	0	2	0	0	0	0	0	0	0	0	0
Minimum Concentration				0.39	0	0.72	0	0	0	0	0	0	0	0	0
Maximum Concentration				0.39	0	0.8	0	0	0	0	0	0	0	0	0
HWAD - PCG				4	8	233	2.6	80	800	800	800	4000	40	64	800
HWAD - PCG Hits				0	0	0	0	0	0	0	0	0	0	0	0

Duplicate Samples:

J28-DP011 is a duplicate sample of J28-SS01-1-S.
J28-DP013 is a duplicate sample of J28-SS07-1-S.

Petroleum Hydrocarbons
Method M8015E (APCL)

Sample ID	Location ID	Sample Date	Depth (feet)	Lab	C11-C22 (Diesel)	C23-C30 (Motor oil)	C31-C40 (Heavy oil)	C8-C10 (Gasoline)	Diesel Fuel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
J28-SB10-1-S	SB10	2/18/97	15	APCL	<1.1	<0.49	<0.37	<0.2	NA
Analyses					1	1	1	1	0
Detections					0	0	0	0	0
Minimum Concentration					0	0	0	0	0
Maximum Concentration					0	0	0	0	0
HWAD - PCG					100	NE	NE	NE	100
HWAD - PCG Hits					0	NE	NE	NE	0

Notes:

NA = Not analyzed

NE = Not established

Explosives
Method M8330 (APCL)

Sample ID	Location ID	Date	Depth (feet)	Lab	Picric Acid mg/kg
J28-SB05-1-S	SB05	2/12/97	0.5	APCL	<0.00039
J28-SB05-2-S	SB05	2/12/97	22.5	APCL	<0.00039
J28-SB05-3-S	SB05	2/12/97	37.5	APCL	<0.00039
J28-SB06-1-S	SB06	2/19/97	10.5	APCL	<0.75
J28-SB06-2-S	SB06	2/19/97	25	APCL	<0.7
J28-SB06-3-S	SB06	2/19/97	34.5	APCL	<0.72
J28-SB06-4-S	SB06	2/19/97	25	APCL	<0.7
J28-SB07-1-S	SB07	2/13/97	2	APCL	<0.00038
J28-SB07-2-S	SB07	2/13/97	24	APCL	<0.00039
J28-SB07-3-S	SB07	2/13/97	38	APCL	<0.0004
J28-SB08-1-S	SB08	2/12/97	2	APCL	<0.00039
J28-SB08A-2-S	SB08A	2/12/97	27.5	APCL	<0.0004
J28-SB08A-3-S	SB08A	2/12/97	40	APCL	<0.00039
J28-SB09-1-S	SB09	2/13/97	19.5	APCL	<0.00039
J28-SB09-2-S	SB09	2/13/97	29	APCL	<0.0004
J28-SB09-3-S	SB09	2/13/97	42	APCL	<0.0004
J28-SB09-4-S	SB09	2/13/97	56	APCL	<0.00039
J28-SB09-5-S	SB09	2/14/97	75	APCL	<0.0005
J28-SB09-6-S	SB09	2/14/97	75	APCL	<0.0005
J28-SB10-1-S	SB10	2/18/97	15	APCL	<0.89
J28-SB10-2-S	SB10	2/18/97	30	APCL	<0.71
J28-SB10-3-S	SB10	2/18/97	30	APCL	<0.71
J28-SB10-4-S	SB10	2/18/97	45	APCL	<0.7
J28-SB10-5-S	SB10	2/19/97	60	APCL	<0.74
J28-SB10-6-S	SB10	2/19/97	74	APCL	<0.77
Analyses					25
Detections					0
Minimum Concentration					0
Maximum Concentration					0
HWAD - PCG					NE
HWAD - PCG Hits					NE

Notes:
NE = Not established

Duplicate Samples:
J28-SB09-6-S is a duplicate sample of J28-SB09-5-S.
J28-SB10-3-S is a duplicate sample of J28-SB10-2-S.

Appendix D

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMU-J-28HP-1-75	Lab Sample ID:	98-2930-7	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Soil	Moisture %:	15.1
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: X
Batch No:	98G2388	Prep. Date:	05/20/98	Anal. Date:	05/20/98
Data File Name:	2930-07	Prep. No:	-	Anal. Time:	21:02
Methanol Vol.	-	Sample Amount:	5 g	Dilution Factor:	1
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/kg	5.9	0	U
2	Bromobenzene	108-86-1	µg/kg	5.9	0	U
3	Bromochloromethane	74-97-5	µg/kg	5.9	0	U
4	Bromodichloromethane	75-27-4	µg/kg	5.9	0	U
5	Bromoform	75-25-2	µg/kg	5.9	0	U
6	Bromomethane	74-83-9	µg/kg	5.9	0	U
7	n-Butylbenzene	104-51-8	µg/kg	5.9	0	U
8	sec-Butylbenzene	135-98-8	µg/kg	5.9	0	U
9	tert-Butylbenzene	98-06-6	µg/kg	5.9	0	U
10	Carbon tetrachloride	56-23-5	µg/kg	5.9	0	U
11	Chlorobenzene	108-90-7	µg/kg	5.9	0	U
12	Chlorodibromomethane	124-48-1	µg/kg	5.9	0	U
13	Chloroethane	75-00-3	µg/kg	5.9	0	U
14	Chloroform	67-66-3	µg/kg	5.9	0	U
15	Chloromethane	74-87-3	µg/kg	5.9	0	U
16	2-Chlorotoluene	95-49-8	µg/kg	5.9	0	U
17	4-Chlorotoluene	106-43-4	µg/kg	5.9	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/kg	5.9	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/kg	5.9	0	U
20	Dibromomethane	74-95-3	µg/kg	5.9	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/kg	5.9	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/kg	5.9	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/kg	5.9	0	U
24	Dichlorodifluoromethane	75-71-8	µg/kg	5.9	0	U
25	1,1-Dichloroethane	75-34-3	µg/kg	5.9	0	U
26	1,2-Dichloroethane	107-06-2	µg/kg	5.9	0	U
27	1,1-Dichloroethene	75-35-4	µg/kg	5.9	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/kg	5.9	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/kg	5.9	0	U
30	1,2-Dichloropropane	78-87-5	µg/kg	5.9	0	U
31	1,3-Dichloropropane	142-28-9	µg/kg	5.9	0	U
32	2,2-Dichloropropane	594-20-7	µg/kg	5.9	0	U
33	1,1-Dichloropropene	563-58-6	µg/kg	5.9	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/kg	5.9	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/kg	5.9	0	U
36	Ethylbenzene	100-41-4	µg/kg	5.9	0	U
37	Hexachlorobutadiene	87-68-3	µg/kg	5.9	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/kg	5.9	0	U
39	p-Isopropyltoluene	99-87-6	µg/kg	5.9	0	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/kg	5.9	0	U
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/kg	5.9	0	U
42	Naphthalene	91-20-3	µg/kg	5.9	0	U
43	n-Propylbenzene	103-65-1	µg/kg	5.9	0	U
44	Styrene	100-42-5	µg/kg	5.9	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/kg	5.9	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	5.9	0	U
47	Tetrachloroethene	127-18-4	µg/kg	5.9	0	U
48	Toluene	108-88-3	µg/kg	5.9	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/kg	5.9	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/kg	5.9	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/kg	5.9	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/kg	5.9	0	U
53	Trichloroethene	79-01-6	µg/kg	5.9	0	U
54	Trichlorofluoromethane	75-69-4	µg/kg	5.9	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/kg	5.9	0	U
56	1,2,4-Trimethylbenzene	95-63-6	µg/kg	5.9	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/kg	5.9	0	U
58	Vinyl chloride	75-01-4	µg/kg	5.9	0	U
59	o-Xylene	95-47-6	µg/kg	5.9	0	U
60	m/p-Xylene	108-38-3	µg/kg	5.9	0	U
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Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		59-113	95	
2	1,2-Dichloroethane-d4	17060-07-0		70-121	100	
3	Toluene-d8	2037-26-5		84-138	82	
# of out-of-control					1	
<hr/>						
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	78	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	71	
3	Fluorobenzene	462-06-6		50-200	81	
# of out-of-control					0	
<hr/>						

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMU-J-28HP-1-90	Lab Sample ID:	98-2930-8	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Soil	Moisture %:	55.5
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: X
Batch No:	98G2404	Prep. Date:	05/21/98	Anal. Date:	05/21/98
Data File Name:	2930-08A	Prep. No:	-	Anal. Time:	14:02
Methanol Vol.	-	Sample Amount:	5 g	Dilution Factor:	1
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/kg	11	0	U
2	Bromobenzene	108-86-1	µg/kg	11	0	U
3	Bromochloromethane	74-97-5	µg/kg	11	0	U
4	Bromodichloromethane	75-27-4	µg/kg	11	0	U
5	Bromoform	75-25-2	µg/kg	11	0	U
6	Bromomethane	74-83-9	µg/kg	11	0	U
7	n-Butylbenzene	104-51-8	µg/kg	11	0	U
8	sec-Butylbenzene	135-98-8	µg/kg	11	0	U
9	tert-Butylbenzene	98-06-6	µg/kg	11	0	U
10	Carbon tetrachloride	56-23-5	µg/kg	11	0	U
11	Chlorobenzene	108-90-7	µg/kg	11	0	U
12	Chlorodibromomethane	124-48-1	µg/kg	11	0	U
13	Chloroethane	75-00-3	µg/kg	11	0	U
14	Chloroform	67-66-3	µg/kg	11	1	J
15	Chloromethane	74-87-3	µg/kg	11	0	U
16	2-Chlorotoluene	95-49-8	µg/kg	11	0	U
17	4-Chlorotoluene	106-43-4	µg/kg	11	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/kg	11	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/kg	11	0	U
20	Dibromomethane	74-95-3	µg/kg	11	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/kg	11	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/kg	11	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/kg	11	0	U
24	Dichlorodifluoromethane	75-71-8	µg/kg	11	0	U
25	1,1-Dichloroethane	75-34-3	µg/kg	11	0	U
26	1,2-Dichloroethane	107-06-2	µg/kg	11	0	U
27	1,1-Dichloroethene	75-35-4	µg/kg	11	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/kg	11	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/kg	11	0	U
30	1,2-Dichloropropane	78-87-5	µg/kg	11	0	U
31	1,3-Dichloropropane	142-28-9	µg/kg	11	0	U
32	2,2-Dichloropropane	594-20-7	µg/kg	11	0	U
33	1,1-Dichloropropene	563-58-6	µg/kg	11	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/kg	11	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/kg	11	0	U
36	Ethylbenzene	100-41-4	µg/kg	11	0	U
37	Hexachlorobutadiene	87-68-3	µg/kg	11	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/kg	11	0	U
39	p-Isopropyltoluene	99-87-6	µg/kg	11	0	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/kg	11	0	U
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/kg	11	0	U
42	Naphthalene	91-20-3	µg/kg	11	0	U
43	n-Propylbenzene	103-65-1	µg/kg	11	0	U
44	Styrene	100-42-5	µg/kg	11	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/kg	11	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	11	0	U
47	Tetrachloroethene	127-18-4	µg/kg	11	0	U
48	Toluene	108-88-3	µg/kg	11	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/kg	11	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/kg	11	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/kg	11	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/kg	11	0	U
53	Trichloroethene	79-01-6	µg/kg	11	0	U
54	Trichlorofluoromethane	75-69-4	µg/kg	11	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/kg	11	0	U
56	1,2,4-Trimethylbenzene	95-63-6	µg/kg	11	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/kg	11	0	U
58	Vinyl chloride	75-01-4	µg/kg	11	0	U
59	o-Xylene	95-47-6	µg/kg	11	0	U
60	m/p-Xylene	108-38-3	µg/kg	11	0	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		59-113	107	
2	1,2-Dichloroethane-d4	17060-07-0		70-121	101	
3	Toluene-d8	2037-26-5		84-138	83	
	# of out-of-control				1	
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	100	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	88	
3	Fluorobenzene	462-06-6		50-200	105	
	# of out-of-control				0	

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater
than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMU-J-28HP-1X	Lab Sample ID:	98-2930-9	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Soil	Moisture %:	26.7
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: X
Batch No:	98G2388	Prep. Date:	05/20/98	Anal. Date:	05/20/98
Data File Name:	2930-09	Prep. No:	-	Anal. Time:	21:58
Methanol Vol.	-	Sample Amount:	5 g	Dilution Factor:	1
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/kg	6.8	0	U
2	Bromobenzene	108-86-1	µg/kg	6.8	0	U
3	Bromochloromethane	74-97-5	µg/kg	6.8	0	U
4	Bromodichloromethane	75-27-4	µg/kg	6.8	0	U
5	Bromoform	75-25-2	µg/kg	6.8	0	U
6	Bromomethane	74-83-9	µg/kg	6.8	0	U
7	n-Butylbenzene	104-51-8	µg/kg	6.8	0	U
8	sec-Butylbenzene	135-98-8	µg/kg	6.8	0	U
9	tert-Butylbenzene	98-06-6	µg/kg	6.8	0	U
10	Carbon tetrachloride	56-23-5	µg/kg	6.8	0	U
11	Chlorobenzene	108-90-7	µg/kg	6.8	0	U
12	Chlorodibromomethane	124-48-1	µg/kg	6.8	0	U
13	Chloroethane	75-00-3	µg/kg	6.8	0	U
14	Chloroform	67-66-3	µg/kg	6.8	0	U
15	Chloromethane	74-87-3	µg/kg	6.8	0	U
16	2-Chlorotoluene	95-49-8	µg/kg	6.8	0	U
17	4-Chlorotoluene	106-43-4	µg/kg	6.8	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/kg	6.8	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/kg	6.8	0	U
20	Dibromomethane	74-95-3	µg/kg	6.8	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/kg	6.8	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/kg	6.8	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/kg	6.8	0	U
24	Dichlorodifluoromethane	75-71-8	µg/kg	6.8	0	U
25	1,1-Dichloroethane	75-34-3	µg/kg	6.8	0	U
26	1,2-Dichloroethane	107-06-2	µg/kg	6.8	0	U
27	1,1-Dichloroethene	75-35-4	µg/kg	6.8	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/kg	6.8	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/kg	6.8	0	U
30	1,2-Dichloropropane	78-87-5	µg/kg	6.8	0	U
31	1,3-Dichloropropane	142-28-9	µg/kg	6.8	0	U
32	2,2-Dichloropropane	594-20-7	µg/kg	6.8	0	U
33	1,1-Dichloropropene	563-58-6	µg/kg	6.8	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/kg	6.8	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/kg	6.8	0	U
36	Ethylbenzene	100-41-4	µg/kg	6.8	0	U
37	Hexachlorobutadiene	87-68-3	µg/kg	6.8	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/kg	6.8	0	U
39	p-Isopropyltoluene	99-87-6	µg/kg	6.8	0	U

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Continued

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/kg	6.8	0	U
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/kg	6.8	0	U
42	Naphthalene	91-20-3	µg/kg	6.8	0	U
43	n-Propylbenzene	103-65-1	µg/kg	6.8	0	U
44	Styrene	100-42-5	µg/kg	6.8	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/kg	6.8	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	6.8	0	U
47	Tetrachloroethene	127-18-4	µg/kg	6.8	0	U
48	Toluene	108-88-3	µg/kg	6.8	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/kg	6.8	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/kg	6.8	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/kg	6.8	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/kg	6.8	0	U
53	Trichloroethene	79-01-6	µg/kg	6.8	0	U
54	Trichlorofluoromethane	75-69-4	µg/kg	6.8	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/kg	6.8	0	U
56	1,2,4-Trimethylbenzene	95-63-6	µg/kg	6.8	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/kg	6.8	0	U
58	Vinyl chloride	75-01-4	µg/kg	6.8	0	U
59	o-Xylene	95-47-6	µg/kg	6.8	0	U
60	m/p-Xylene	108-38-3	µg/kg	6.8	0	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		59-113	97	
2	1,2-Dichloroethane-d4	17060-07-0		70-121	109	
3	Toluene-d8	2037-26-5		84-138	86	
# of out-of-control					0	
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	69	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	65	
3	Fluorobenzene	462-06-6		50-200	72	
# of out-of-control					0	

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMU-J-28HP1 - 60	Lab Sample ID:	98-2930-10	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Soil	Moisture %:	18.9
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: X
Batch No:	98G2388	Prep. Date:	05/20/98	Anal. Date:	05/20/98
Data File Name:	2930-10	Prep. No:	-	Anal. Time:	22:25
Methanol Vol.	-	Sample Amount:	5 g	Dilution Factor:	1
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/kg	6.2	0	U
2	Bromobenzene	108-86-1	µg/kg	6.2	0	U
3	Bromochloromethane	74-97-5	µg/kg	6.2	0	U
4	Bromodichloromethane	75-27-4	µg/kg	6.2	0	U
5	Bromoform	75-25-2	µg/kg	6.2	0	U
6	Bromomethane	74-83-9	µg/kg	6.2	0	U
7	n-Butylbenzene	104-51-8	µg/kg	6.2	0	U
8	sec-Butylbenzene	135-98-8	µg/kg	6.2	0	U
9	tert-Butylbenzene	98-06-6	µg/kg	6.2	0	U
10	Carbon tetrachloride	56-23-5	µg/kg	6.2	0	U
11	Chlorobenzene	108-90-7	µg/kg	6.2	0	U
12	Chlorodibromomethane	124-48-1	µg/kg	6.2	0	U
13	Chloroethane	75-00-3	µg/kg	6.2	0	U
14	Chloroform	67-66-3	µg/kg	6.2	0	U
15	Chloromethane	74-87-3	µg/kg	6.2	0	U
16	2-Chlorotoluene	95-49-8	µg/kg	6.2	0	U
17	4-Chlorotoluene	106-43-4	µg/kg	6.2	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/kg	6.2	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/kg	6.2	0	U
20	Dibromomethane	74-95-3	µg/kg	6.2	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/kg	6.2	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/kg	6.2	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/kg	6.2	0	U
24	Dichlorodifluoromethane	75-71-8	µg/kg	6.2	0	U
25	1,1-Dichloroethane	75-34-3	µg/kg	6.2	0	U
26	1,2-Dichloroethane	107-06-2	µg/kg	6.2	0	U
27	1,1-Dichloroethene	75-35-4	µg/kg	6.2	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/kg	6.2	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/kg	6.2	0	U
30	1,2-Dichloropropane	78-87-5	µg/kg	6.2	0	U
31	1,3-Dichloropropane	142-28-9	µg/kg	6.2	0	U
32	2,2-Dichloropropane	594-20-7	µg/kg	6.2	0	U
33	1,1-Dichloropropene	563-58-6	µg/kg	6.2	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/kg	6.2	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/kg	6.2	0	U
36	Ethylbenzene	100-41-4	µg/kg	6.2	0	U
37	Hexachlorobutadiene	87-68-3	µg/kg	6.2	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/kg	6.2	0	U
39	p-Isopropyltoluene	99-87-6	µg/kg	6.2	0	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/kg	6.2	0	U
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/kg	6.2	0	U
42	Naphthalene	91-20-3	µg/kg	6.2	0	U
43	n-Propylbenzene	103-65-1	µg/kg	6.2	0	U
44	Styrene	100-42-5	µg/kg	6.2	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/kg	6.2	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	6.2	0	U
47	Tetrachloroethene	127-18-4	µg/kg	6.2	0	U
48	Toluene	108-88-3	µg/kg	6.2	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/kg	6.2	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/kg	6.2	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/kg	6.2	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/kg	6.2	0	U
53	Trichloroethene	79-01-6	µg/kg	6.2	0	U
54	Trichlorofluoromethane	75-69-4	µg/kg	6.2	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/kg	6.2	0	U
56	1,2,4-Trimethylbenzene	95-63-6	µg/kg	6.2	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/kg	6.2	0	U
58	Vinyl chloride	75-01-4	µg/kg	6.2	0	U
59	o-Xylene	95-47-6	µg/kg	6.2	0	U
60	m/p-Xylene	108-38-3	µg/kg	6.2	0	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		59-113	99	
2	1,2-Dichloroethane-d4	17060-07-0		70-121	112	
3	Toluene-d8	2037-26-5		84-138	89	
# of out-of-control					0	
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	63	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	60	
3	Fluorobenzene	462-06-6		50-200	65	
# of out-of-control					0	

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMU-J-28HP1-15	Lab Sample ID:	98-2930-11	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Soil	Moisture %:	15.6
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: X
Batch No:	98G2404	Prep. Date:	05/21/98	Anal. Date:	05/21/98
Data File Name:	2930-11A	Prep. No:	-	Anal. Time:	16:50
Methanol Vol.	-	Sample Amount:	5 g	Dilution Factor:	1
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/kg	5.9	0	U
2	Bromobenzene	108-86-1	µg/kg	5.9	0	U
3	Bromochloromethane	74-97-5	µg/kg	5.9	0	U
4	Bromodichloromethane	75-27-4	µg/kg	5.9	0	U
5	Bromoform	75-25-2	µg/kg	5.9	0	U
6	Bromomethane	74-83-9	µg/kg	5.9	0	U
7	n-Butylbenzene	104-51-8	µg/kg	5.9	0	U
8	sec-Butylbenzene	135-98-8	µg/kg	5.9	0	U
9	tert-Butylbenzene	98-06-6	µg/kg	5.9	0	U
10	Carbon tetrachloride	56-23-5	µg/kg	5.9	0	U
11	Chlorobenzene	108-90-7	µg/kg	5.9	0	U
12	Chlorodibromomethane	124-48-1	µg/kg	5.9	0	U
13	Chloroethane	75-00-3	µg/kg	5.9	0	U
14	Chloroform	67-66-3	µg/kg	5.9	0	U
15	Chloromethane	74-87-3	µg/kg	5.9	0	U
16	2-Chlorotoluene	95-49-8	µg/kg	5.9	0	U
17	4-Chlorotoluene	106-43-4	µg/kg	5.9	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/kg	5.9	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/kg	5.9	0	U
20	Dibromomethane	74-95-3	µg/kg	5.9	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/kg	5.9	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/kg	5.9	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/kg	5.9	0	U
24	Dichlorodifluoromethane	75-71-8	µg/kg	5.9	0	U
25	1,1-Dichloroethane	75-34-3	µg/kg	5.9	0	U
26	1,2-Dichloroethane	107-06-2	µg/kg	5.9	0	U
27	1,1-Dichloroethene	75-35-4	µg/kg	5.9	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/kg	5.9	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/kg	5.9	0	U
30	1,2-Dichloropropane	78-87-5	µg/kg	5.9	0	U
31	1,3-Dichloropropane	142-28-9	µg/kg	5.9	0	U
32	2,2-Dichloropropane	594-20-7	µg/kg	5.9	0	U
33	1,1-Dichloropropene	563-58-6	µg/kg	5.9	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/kg	5.9	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/kg	5.9	0	U
36	Ethylbenzene	100-41-4	µg/kg	5.9	0	U
37	Hexachlorobutadiene	87-68-3	µg/kg	5.9	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/kg	5.9	0	U
39	p-Isopropyltoluene	99-87-6	µg/kg	5.9	0	U

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Continued

98-2930-11 8260 Datafile 2930-11A

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/kg	5.9	0	U
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/kg	5.9	0	U
42	Naphthalene	91-20-3	µg/kg	5.9	0	U
43	n-Propylbenzene	103-65-1	µg/kg	5.9	0	U
44	Styrene	100-42-5	µg/kg	5.9	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/kg	5.9	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	5.9	0	U
47	Tetrachloroethene	127-18-4	µg/kg	5.9	0	U
48	Toluene	108-88-3	µg/kg	5.9	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/kg	5.9	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/kg	5.9	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/kg	5.9	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/kg	5.9	0	U
53	Trichloroethene	79-01-6	µg/kg	5.9	0	U
54	Trichlorofluoromethane	75-69-4	µg/kg	5.9	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/kg	5.9	0	U
56	1,2,4-Trimethylbenzene	95-63-6	µg/kg	5.9	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/kg	5.9	0	U
58	Vinyl chloride	75-01-4	µg/kg	5.9	0	U
59	o-Xylene	95-47-6	µg/kg	5.9	0	U
60	m/p-Xylene	108-38-3	µg/kg	5.9	0	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		59-113	103	
2	1,2-Dichloroethane-d4	17060-07-0		70-121	108	
3	Toluene-d8	2037-26-5		84-138	81	
# of out-of-control					1	
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	92	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	80	
3	Fluorobenzene	462-06-6		50-200	94	
# of out-of-control					0	

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater
than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMU-J-28HP1-30	Lab Sample ID:	98-2930-12	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Soil	Moisture %:	13.1
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: X
Batch No:	98G2404	Prep. Date:	05/21/98	Anal. Date:	05/21/98
Data File Name:	2930-12	Prep. No:	-	Anal. Time:	14:59
Methanol Vol.	-	Sample Amount:	5 g	Dilution Factor:	1
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/kg	5.8	0	U
2	Bromobenzene	108-86-1	µg/kg	5.8	0	U
3	Bromochloromethane	74-97-5	µg/kg	5.8	0	U
4	Bromodichloromethane	75-27-4	µg/kg	5.8	0	U
5	Bromoform	75-25-2	µg/kg	5.8	0	U
6	Bromomethane	74-83-9	µg/kg	5.8	0	U
7	n-Butylbenzene	104-51-8	µg/kg	5.8	0	U
8	sec-Butylbenzene	135-98-8	µg/kg	5.8	0	U
9	tert-Butylbenzene	98-06-6	µg/kg	5.8	0	U
10	Carbon tetrachloride	56-23-5	µg/kg	5.8	0	U
11	Chlorobenzene	108-90-7	µg/kg	5.8	0	U
12	Chlorodibromomethane	124-48-1	µg/kg	5.8	0	U
13	Chloroethane	75-00-3	µg/kg	5.8	0	U
14	Chloroform	67-66-3	µg/kg	5.8	0.6	J
15	Chloromethane	74-87-3	µg/kg	5.8	0	U
16	2-Chlorotoluene	95-49-8	µg/kg	5.8	0	U
17	4-Chlorotoluene	106-43-4	µg/kg	5.8	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/kg	5.8	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/kg	5.8	0	U
20	Dibromomethane	74-95-3	µg/kg	5.8	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/kg	5.8	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/kg	5.8	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/kg	5.8	0	U
24	Dichlorodifluoromethane	75-71-8	µg/kg	5.8	0	U
25	1,1-Dichloroethane	75-34-3	µg/kg	5.8	0	U
26	1,2-Dichloroethane	107-06-2	µg/kg	5.8	0	U
27	1,1-Dichloroethene	75-35-4	µg/kg	5.8	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/kg	5.8	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/kg	5.8	0	U
30	1,2-Dichloropropane	78-87-5	µg/kg	5.8	0	U
31	1,3-Dichloropropane	142-28-9	µg/kg	5.8	0	U
32	2,2-Dichloropropane	594-20-7	µg/kg	5.8	0	U
33	1,1-Dichloropropene	563-58-6	µg/kg	5.8	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/kg	5.8	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/kg	5.8	0	U
36	Ethylbenzene	100-41-4	µg/kg	5.8	0	U
37	Hexachlorobutadiene	87-68-3	µg/kg	5.8	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/kg	5.8	0	U
39	p-Isopropyltoluene	99-87-6	µg/kg	5.8	0	U

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Continued

98-2930-12 8260 Datafile 2930-12

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/kg	5.8	0	U
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/kg	5.8	0	U
42	Naphthalene	91-20-3	µg/kg	5.8	0	U
43	n-Propylbenzene	103-65-1	µg/kg	5.8	0	U
44	Styrene	100-42-5	µg/kg	5.8	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/kg	5.8	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	5.8	0	U
47	Tetrachloroethene	127-18-4	µg/kg	5.8	0	U
48	Toluene	108-88-3	µg/kg	5.8	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/kg	5.8	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/kg	5.8	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/kg	5.8	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/kg	5.8	0	U
53	Trichloroethene	79-01-6	µg/kg	5.8	0	U
54	Trichlorofluoromethane	75-69-4	µg/kg	5.8	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/kg	5.8	0	U
56	1,2,4-Trimethylbenzene	95-63-6	µg/kg	5.8	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/kg	5.8	0	U
58	Vinyl chloride	75-01-4	µg/kg	5.8	0	U
59	o-Xylene	95-47-6	µg/kg	5.8	0	U
60	m/p-Xylene	108-38-3	µg/kg	5.8	0	U

Surrogates

			Control Limit, %	Surro. Rec.%
1	4-Bromo-fluorobenzene (BFB)	460-00-4	59-113	107
2	1,2-Dichloroethane-d4	17060-07-0	70-121	104
3	Toluene-d8	2037-26-5	84-138	83

of out-of-control

Internal Standard

			Control Limit, %	IS Rec.%
1	Chlorobenzene-d5	3114-55-4	50-200	100
2	1,4-Dichlorobenzene-d4	3855-82-1	50-200	84
3	Fluorobenzene	462-06-6	50-200	103

of out-of-control

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMU-J-28HP1-45	Lab Sample ID:	98-2930-13	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Soil	Moisture %:	3.5
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: X
Batch No:	98G2404	Prep. Date:	05/21/98	Anal. Date:	05/21/98
Data File Name:	2930-13	Prep. No:	-	Anal. Time:	15:26
Methanol Vol.	-	Sample Amount:	5 g	Dilution Factor:	1
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/kg	5.2	0	U
2	Bromobenzene	108-86-1	µg/kg	5.2	0	U
3	Bromochloromethane	74-97-5	µg/kg	5.2	0	U
4	Bromodichloromethane	75-27-4	µg/kg	5.2	0	U
5	Bromoform	75-25-2	µg/kg	5.2	0	U
6	Bromomethane	74-83-9	µg/kg	5.2	0	U
7	n-Butylbenzene	104-51-8	µg/kg	5.2	0	U
8	sec-Butylbenzene	135-98-8	µg/kg	5.2	0	U
9	tert-Butylbenzene	98-06-6	µg/kg	5.2	0	U
10	Carbon tetrachloride	56-23-5	µg/kg	5.2	0	U
11	Chlorobenzene	108-90-7	µg/kg	5.2	0	U
12	Chlorodibromomethane	124-48-1	µg/kg	5.2	0	U
13	Chloroethane	75-00-3	µg/kg	5.2	0	U
14	Chloroform	67-66-3	µg/kg	5.2	0.5	J
15	Chloromethane	74-87-3	µg/kg	5.2	0	U
16	2-Chlorotoluene	95-49-8	µg/kg	5.2	0	U
17	4-Chlorotoluene	106-43-4	µg/kg	5.2	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/kg	5.2	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/kg	5.2	0	U
20	Dibromomethane	74-95-3	µg/kg	5.2	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/kg	5.2	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/kg	5.2	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/kg	5.2	0	U
24	Dichlorodifluoromethane	75-71-8	µg/kg	5.2	0	U
25	1,1-Dichloroethane	75-34-3	µg/kg	5.2	0	U
26	1,2-Dichloroethane	107-06-2	µg/kg	5.2	0	U
27	1,1-Dichloroethene	75-35-4	µg/kg	5.2	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/kg	5.2	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/kg	5.2	0	U
30	1,2-Dichloropropane	78-87-5	µg/kg	5.2	0	U
31	1,3-Dichloropropane	142-28-9	µg/kg	5.2	0	U
32	2,2-Dichloropropane	594-20-7	µg/kg	5.2	0	U
33	1,1-Dichloropropene	563-58-6	µg/kg	5.2	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/kg	5.2	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/kg	5.2	0	U
36	Ethylbenzene	100-41-4	µg/kg	5.2	0	U
37	Hexachlorobutadiene	87-68-3	µg/kg	5.2	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/kg	5.2	0	U
39	p-Isopropyltoluene	99-87-6	µg/kg	5.2	0	U

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Continued

98-2930-13 8260 Datafile 2930-13

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/kg	5.2	0	U
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/kg	5.2	0	U
42	Naphthalene	91-20-3	µg/kg	5.2	0	U
43	n-Propylbenzene	103-65-1	µg/kg	5.2	0	U
44	Styrene	100-42-5	µg/kg	5.2	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/kg	5.2	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	5.2	0	U
47	Tetrachloroethene	127-18-4	µg/kg	5.2	0	U
48	Toluene	108-88-3	µg/kg	5.2	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/kg	5.2	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/kg	5.2	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/kg	5.2	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/kg	5.2	0	U
53	Trichloroethene	79-01-6	µg/kg	5.2	0	U
54	Trichlorofluoromethane	75-69-4	µg/kg	5.2	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/kg	5.2	0	U
56	1,2,4-Trimethylbenzene	95-63-6	µg/kg	5.2	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/kg	5.2	0	U
58	Vinyl chloride	75-01-4	µg/kg	5.2	0	U
59	o-Xylene	95-47-6	µg/kg	5.2	0	U
60	m/p-Xylene	108-38-3	µg/kg	5.2	0	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		59-113	109	
2	1,2-Dichloroethane-d4	17060-07-0		70-121	114	
3	Toluene-d8	2037-26-5		84-138	85	
# of out-of-control					0	
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	93	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	79	
3	Fluorobenzene	462-06-6		50-200	95	
# of out-of-control					0	

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMUJ-28HP1	Lab Sample ID:	98-2930-14	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: G
Batch No:	98G2382	Prep. Date:	05/20/98	Anal. Date:	05/20/98
Data File Name:	2930-14	Prep. No:	-	Anal. Time:	06:32
Methanol Vol.	-	Sample Amount:	25 mL	Dilution Factor:	1
Test Level:	Low	Sparge Size:	25 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/L	2	0	U
2	Bromobenzene	108-86-1	µg/L	2	0	U
3	Bromochloromethane	74-97-5	µg/L	2	0	U
4	Bromodichloromethane	75-27-4	µg/L	2	0	U
5	Bromoform	75-25-2	µg/L	2	0	U
6	Bromomethane	74-83-9	µg/L	2	0	U
7	n-Butylbenzene	104-51-8	µg/L	2	0	U
8	sec-Butylbenzene	135-98-8	µg/L	2	0	U
9	tert-Butylbenzene	98-06-6	µg/L	2	0	U
10	Carbon tetrachloride	56-23-5	µg/L	2	0	U
11	Chlorobenzene	108-90-7	µg/L	2	0	U
12	Chlorodibromomethane	124-48-1	µg/L	2	0	U
13	Chloroethane	75-00-3	µg/L	2	0	U
14	Chloroform	67-66-3	µg/L	2	0	U
15	Chloromethane	74-87-3	µg/L	2	0	U
16	2-Chlorotoluene	95-49-8	µg/L	2	0	U
17	4-Chlorotoluene	106-43-4	µg/L	2	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/L	2	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/L	2	0	U
20	Dibromomethane	74-95-3	µg/L	2	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/L	2	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/L	2	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/L	2	0	U
24	Dichlorodifluoromethane	75-71-8	µg/L	2	0	U
25	1,1-Dichloroethane	75-34-3	µg/L	2	0	U
26	1,2-Dichloroethane	107-06-2	µg/L	2	0	U
27	1,1-Dichloroethene	75-35-4	µg/L	2	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/L	2	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/L	2	0	U
30	1,2-Dichloropropane	78-87-5	µg/L	2	0	U
31	1,3-Dichloropropane	142-28-9	µg/L	2	0	U
32	2,2-Dichloropropane	594-20-7	µg/L	2	0	U
33	1,1-Dichloropropene	563-58-6	µg/L	2	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/L	2	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/L	2	0	U
36	Ethylbenzene	100-41-4	µg/L	2	0	U
37	Hexachlorobutadiene	87-68-3	µg/L	2	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/L	2	0	U
39	p-Isopropyltoluene	99-87-6	µg/L	2	0	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/L	2	0	U
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/L	2	0	U
42	Naphthalene	91-20-3	µg/L	2	0	U
43	n-Propylbenzene	103-65-1	µg/L	2	0	U
44	Styrene	100-42-5	µg/L	2	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/L	2	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	2	0	U
47	Tetrachloroethene	127-18-4	µg/L	2	0	U
48	Toluene	108-88-3	µg/L	2	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/L	2	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/L	2	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/L	2	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/L	2	0	U
53	Trichloroethene	79-01-6	µg/L	2	0.4	J
54	Trichlorofluoromethane	75-69-4	µg/L	2	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/L	2	0	U
56	1,2,4-Trimethylbenzene	95-63-6	µg/L	2	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/L	2	0	U
58	Vinyl chloride	75-01-4	µg/L	2	0	U
59	o-Xylene	95-47-6	µg/L	2	0	U
60	m/p-Xylene	108-38-3	µg/L	2	0	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		86-115	110	
2	1,2-Dichloroethane-d4	17060-07-0		76-114	110	
3	Toluene-d8	2037-26-5		88-110	109	
# of out-of-control					0	
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	88	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	108	
3	Fluorobenzene	462-06-6		50-200	97	
# of out-of-control					0	

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater
than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMUJ-28HP1-RB	Lab Sample ID:	98-2930-15	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: G
Batch No:	98G2382	Prep. Date:	05/20/98	Anal. Date:	05/20/98
Data File Name:	2930-15	Prep. No:	-	Anal. Time:	07:48
Methanol Vol.	-	Sample Amount:	25 mL	Dilution Factor:	1
Test Level:	Low	Sparge Size:	25 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/L	2	0	U
2	Bromobenzene	108-86-1	µg/L	2	0	U
3	Bromo(chloromethane)	74-97-5	µg/L	2	0	U
4	Bromodichloromethane	75-27-4	µg/L	2	0	U
5	Bromoform	75-25-2	µg/L	2	0	U
6	Bromomethane	74-83-9	µg/L	2	0	U
7	n-Butylbenzene	104-51-8	µg/L	2	0	U
8	sec-Butylbenzene	135-98-8	µg/L	2	0	U
9	tert-Butylbenzene	98-06-6	µg/L	2	0	U
10	Carbon tetrachloride	56-23-5	µg/L	2	0	U
11	Chlorobenzene	108-90-7	µg/L	2	0	U
12	Chlorodibromomethane	124-48-1	µg/L	2	0	U
13	Chloroethane	75-00-3	µg/L	2	0	U
14	Chloroform	67-66-3	µg/L	2	2	J
15	Chloromethane	74-87-3	µg/L	2	0	U
16	2-Chlorotoluene	95-49-8	µg/L	2	0	U
17	4-Chlorotoluene	106-43-4	µg/L	2	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/L	2	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/L	2	0	U
20	Dibromomethane	74-95-3	µg/L	2	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/L	2	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/L	2	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/L	2	0	U
24	Dichlorodifluoromethane	75-71-8	µg/L	2	0	U
25	1,1-Dichloroethane	75-34-3	µg/L	2	0	U
26	1,2-Dichloroethane	107-06-2	µg/L	2	0	U
27	1,1-Dichloroethene	75-35-4	µg/L	2	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/L	2	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/L	2	0	U
30	1,2-Dichloropropane	78-87-5	µg/L	2	0	U
31	1,3-Dichloropropane	142-28-9	µg/L	2	0	U
32	2,2-Dichloropropane	594-20-7	µg/L	2	0	U
33	1,1-Dichloropropene	563-58-6	µg/L	2	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/L	2	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/L	2	0	U
36	Ethylbenzene	100-41-4	µg/L	2	0	U
37	Hexachlorobutadiene	87-68-3	µg/L	2	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/L	2	0	U
39	p-Isopropyltoluene	99-87-6	µg/L	2	0	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/L	2	385	E J
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/L	2	0	U
42	Naphthalene	91-20-3	µg/L	2	0	U J
43	n-Propylbenzene	103-65-1	µg/L	2	0	U
44	Styrene	100-42-5	µg/L	2	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/L	2	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	2	0	U
47	Tetrachloroethene	127-18-4	µg/L	2	0	U
48	Toluene	108-88-3	µg/L	2	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/L	2	0	U J
50	1,2,4-Trichlorobenzene	120-82-1	µg/L	2	0	U J
51	1,1,1-Trichloroethane	71-55-6	µg/L	2	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/L	2	0	U
53	Trichloroethene	79-01-6	µg/L	2	0	U
54	Trichlorofluoromethane	75-69-4	µg/L	2	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/L	2	0	U J
56	1,2,4-Trimethylbenzene	95-63-6	µg/L	2	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/L	2	0	U
58	Vinyl chloride	75-01-4	µg/L	2	0	U
59	o-Xylene	95-47-6	µg/L	2	0	U
60	m/p-Xylene	108-38-3	µg/L	2	0	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		86-115	106	
2	1,2-Dichloroethane-d4	17060-07-0		76-114	107	
3	Toluene-d8	2037-26-5		88-110	111	
# of out-of-control					1	
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	89	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	110	
3	Fluorobenzene	462-06-6		50-200	96	
# of out-of-control					0	

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater
than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	SWMUJ-28HP1-RBDL	Lab Sample ID:	98-2930-15DL	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: G
Batch No:	98G2382	Prep. Date:	05/20/98	Anal. Date:	05/20/98
Data File Name:	2930-15A	Prep. No:	-	Anal. Time:	13:05
Methanol Vol.	-	Sample Amount:	1.25 mL	Dilution Factor:	20

Sparge Size: 25 mL Heated Purge: (Y/N) N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/L	40	0	U
2	Bromobenzene	108-86-1	µg/L	40	0	U
3	Bromochloromethane	74-97-5	µg/L	40	0	U
4	Bromodichloromethane	75-27-4	µg/L	40	0	U
5	Bromoform	75-25-2	µg/L	40	0	U
6	Bromomethane	74-83-9	µg/L	40	0	U
7	n-Butylbenzene	104-51-8	µg/L	40	0	U
8	sec-Butylbenzene	135-98-8	µg/L	40	0	U
9	tert-Butylbenzene	98-06-6	µg/L	40	0	U
10	Carbon tetrachloride	56-23-5	µg/L	40	0	U
11	Chlorobenzene	108-90-7	µg/L	40	0	U
12	Chlorodibromomethane	124-48-1	µg/L	40	0	U
13	Chloroethane	75-00-3	µg/L	40	0	U
14	Chloroform	67-66-3	µg/L	40	0	U
15	Chloromethane	74-87-3	µg/L	40	0	U
16	2-Chlorotoluene	95-49-8	µg/L	40	0	U
17	4-Chlorotoluene	106-43-4	µg/L	40	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/L	40	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/L	40	0	U
20	Dibromomethane	74-95-3	µg/L	40	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/L	40	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/L	40	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/L	40	0	U
24	Dichlorodifluoromethane	75-71-8	µg/L	40	0	U
25	1,1-Dichloroethane	75-34-3	µg/L	40	0	U
26	1,2-Dichloroethane	107-06-2	µg/L	40	0	U
27	1,1-Dichloroethene	75-35-4	µg/L	40	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/L	40	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/L	40	0	U
30	1,2-Dichloropropane	78-87-5	µg/L	40	0	U
31	1,3-Dichloropropane	142-28-9	µg/L	40	0	U
32	2,2-Dichloropropane	594-20-7	µg/L	40	0	U
33	1,1-Dichloropropene	563-58-6	µg/L	40	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/L	40	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/L	40	0	U
36	Ethylbenzene	100-41-4	µg/L	40	0	U
37	Hexachlorobutadiene	87-68-3	µg/L	40	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/L	40	0	U
39	p-Isopropyltoluene	99-87-6	µg/L	40	0	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/L	40	385	D <input checked="" type="checkbox"/>
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/L	40	0	U
42	Naphthalene	91-20-3	µg/L	40	0	U
43	n-Propylbenzene	103-65-1	µg/L	40	0	U
44	Styrene	100-42-5	µg/L	40	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/L	40	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	40	0	U <input checked="" type="checkbox"/>
47	Tetrachloroethene	127-18-4	µg/L	40	0	U
48	Toluene	108-88-3	µg/L	40	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/L	40	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/L	40	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/L	40	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/L	40	0	U
53	Trichloroethene	79-01-6	µg/L	40	0	U
54	Trichlorofluoromethane	75-69-4	µg/L	40	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/L	40	0	U <input checked="" type="checkbox"/>
56	1,2,4-Trimethylbenzene	95-63-6	µg/L	40	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/L	40	0	U
58	Vinyl chloride	75-01-4	µg/L	40	0	U
59	o-Xylene	95-47-6	µg/L	40	0	U
60	m/p-Xylene	108-38-3	µg/L	40	0	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		86-115	104	
2	1,2-Dichloroethane-d4	17060-07-0		76-114	106	
3	Toluene-d8	2037-26-5		88-110	107	
# of out-of-control					0	
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	120	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	128	
3	Fluorobenzene	462-06-6		50-200	131	
# of out-of-control					0	

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260

Client Name:	ATG, Inc.	Project No:		Collection Date:	05/13/98
Project ID:	50044-005	Service ID:	982930	Collected by:	Max
Sample ID:	TRIP BLANK	Lab Sample ID:	98-2930-16	Received Date:	05/15/98
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8260	Prep. Method:	5030	Instrument ID:	GC/MS: G
Batch No:	98G2382	Prep. Date:	05/20/98	Anal. Date:	05/20/98
Data File Name:	2930-16A	Prep. No:	-	Anal. Time:	14:22
Methanol Vol.	-	Sample Amount:	25 mL	Dilution Factor:	1
Test Level:	Low	Sparge Size:	25 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	Benzene	71-43-2	µg/L	2	0	U
2	Bromobenzene	108-86-1	µg/L	2	0	U
3	Bromochloromethane	74-97-5	µg/L	2	0	U
4	Bromodichloromethane	75-27-4	µg/L	2	0	U
5	Bromoform	75-25-2	µg/L	2	0	U
6	Bromomethane	74-83-9	µg/L	2	0	U
7	n-Butylbenzene	104-51-8	µg/L	2	0	U
8	sec-Butylbenzene	135-98-8	µg/L	2	0	U
9	tert-Butylbenzene	98-06-6	µg/L	2	0	U
10	Carbon tetrachloride	56-23-5	µg/L	2	0	U
11	Chlorobenzene	108-90-7	µg/L	2	0	U
12	Chlorodibromomethane	124-48-1	µg/L	2	0	U
13	Chloroethane	75-00-3	µg/L	2	0	U
14	Chloroform	67-66-3	µg/L	2	0	U
15	Chloromethane	74-87-3	µg/L	2	0	U
16	2-Chlorotoluene	95-49-8	µg/L	2	0	U
17	4-Chlorotoluene	106-43-4	µg/L	2	0	U
18	1,2-Dibromo-3-chloropropane (DB)	96-12-8	µg/L	2	0	U
19	1,2-Dibromoethane (EDB)	106-93-4	µg/L	2	0	U
20	Dibromomethane	74-95-3	µg/L	2	0	U
21	1,2-Dichlorobenzene	95-50-1	µg/L	2	0	U
22	1,3-Dichlorobenzene	541-73-1	µg/L	2	0	U
23	1,4-Dichlorobenzene	106-46-7	µg/L	2	0	U
24	Dichlorodifluoromethane	75-71-8	µg/L	2	0	U
25	1,1-Dichloroethane	75-34-3	µg/L	2	0	U
26	1,2-Dichloroethane	107-06-2	µg/L	2	0	U
27	1,1-Dichloroethene	75-35-4	µg/L	2	0	U
28	cis-1,2-Dichloroethene	156-59-2	µg/L	2	0	U
29	trans-1,2-Dichloroethene	156-60-5	µg/L	2	0	U
30	1,2-Dichloropropane	78-87-5	µg/L	2	0	U
31	1,3-Dichloropropane	142-28-9	µg/L	2	0	U
32	2,2-Dichloropropane	594-20-7	µg/L	2	0	U
33	1,1-Dichloropropene	563-58-6	µg/L	2	0	U
34	cis-1,3-Dichloropropene	10061-01-5	µg/L	2	0	U
35	trans-1,3-Dichloropropene	10061-02-6	µg/L	2	0	U
36	Ethylbenzene	100-41-4	µg/L	2	0	U
37	Hexachlorobutadiene	87-68-3	µg/L	2	0	U
38	Isopropylbenzene (Cumene)	98-82-8	µg/L	2	0	U
39	p-Isopropyltoluene	99-87-6	µg/L	2	0	U

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Continued

98-2930-16 8260 Datafile 2930-16A

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	Methylene chloride	75-09-2	µg/L	2	0	U
41	Methyl-t-Butyl Ether (MTBE)	1634-04-4	µg/L	2	0	U
42	Naphthalene	91-20-3	µg/L	2	0	U
43	n-Propylbenzene	103-65-1	µg/L	2	0	U
44	Styrene	100-42-5	µg/L	2	0	U
45	1,1,1,2-Tetrachloroethane	630-20-6	µg/L	2	0	U
46	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	2	0	U
47	Tetrachloroethene	127-18-4	µg/L	2	0	U
48	Toluene	108-88-3	µg/L	2	0	U
49	1,2,3-Trichlorobenzene	87-61-6	µg/L	2	0	U
50	1,2,4-Trichlorobenzene	120-82-1	µg/L	2	0	U
51	1,1,1-Trichloroethane	71-55-6	µg/L	2	0	U
52	1,1,2-Trichloroethane	79-00-5	µg/L	2	0	U
53	Trichloroethene	79-01-6	µg/L	2	0	U
54	Trichlorofluoromethane	75-69-4	µg/L	2	0	U
55	1,2,3-Trichloropropane	96-18-4	µg/L	2	0	U
56	1,2,4-Trimethylbenzene	95-63-6	µg/L	2	0	U
57	1,3,5-Trimethylbenzene	108-67-8	µg/L	2	0	U
58	Vinyl chloride	75-01-4	µg/L	2	0	U
59	o-Xylene	95-47-6	µg/L	2	0	U
60	m/p-Xylene	108-38-3	µg/L	2	0	U
Surrogates				Control Limit, %	Surro. Rec.%	
1	4-Bromo-fluorobenzene (BFB)	460-00-4		86-115	107	
2	1,2-Dichloroethane-d4	17060-07-0		76-114	105	
3	Toluene-d8	2037-26-5		88-110	109	
# of out-of-control				0		
Internal Standard				Control Limit, %	IS Rec.%	
1	Chlorobenzene-d5	3114-55-4		50-200	117	
2	1,4-Dichlorobenzene-d4	3855-82-1		50-200	123	
3	Fluorobenzene	462-06-6		50-200	127	
# of out-of-control				0		

Not Detected is shown as 0

Qualifier: U - Not Detected or less than MDL

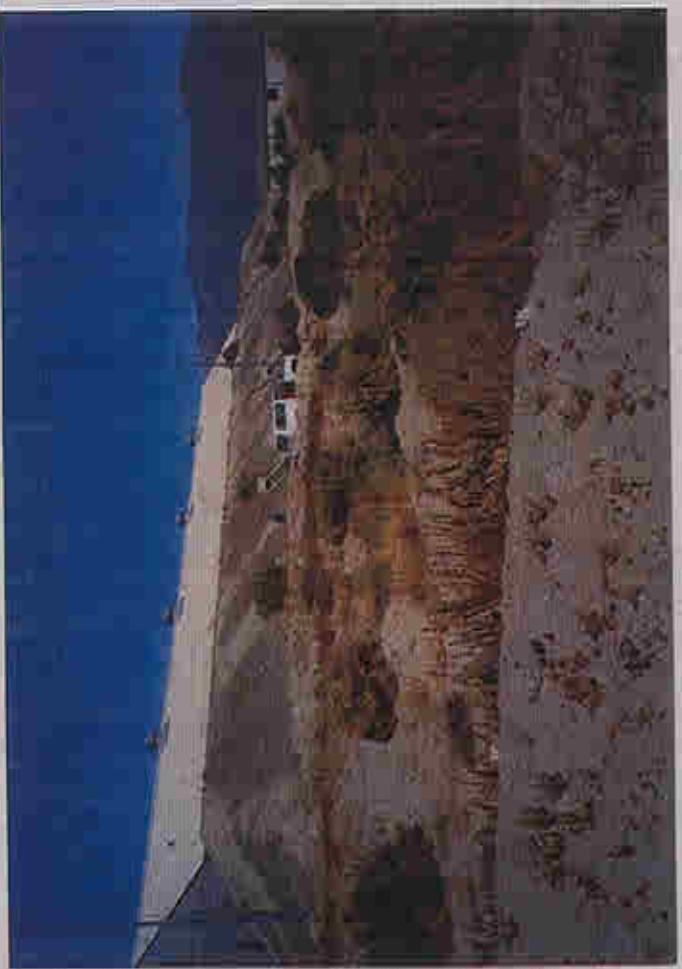
E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater
than MDL, or an estimated result (e.g. for TIC)

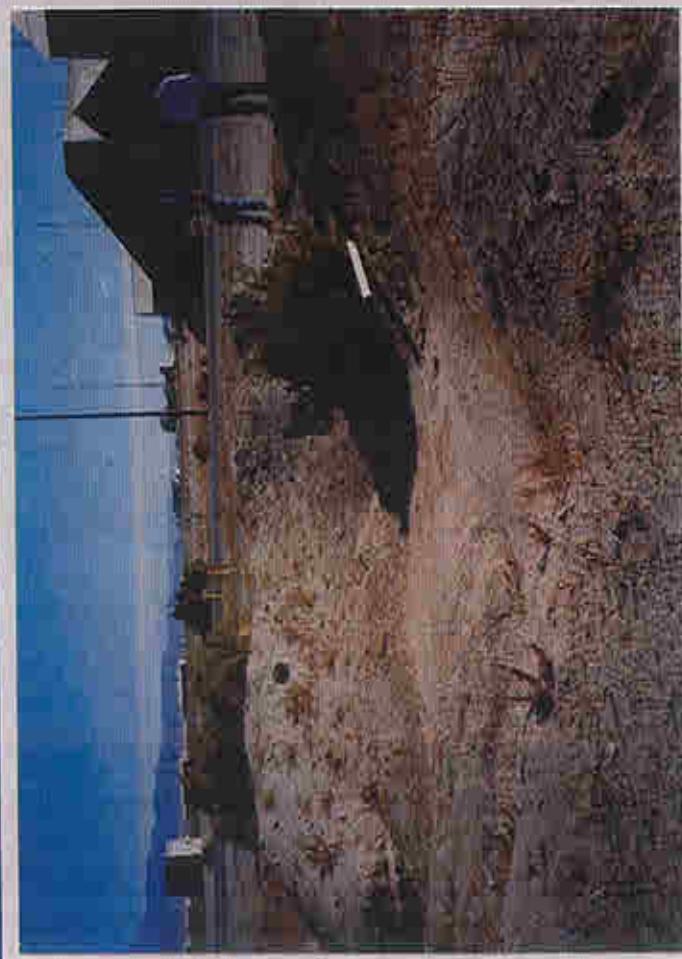
B - A positive value was found in the method blank

D - Diluted

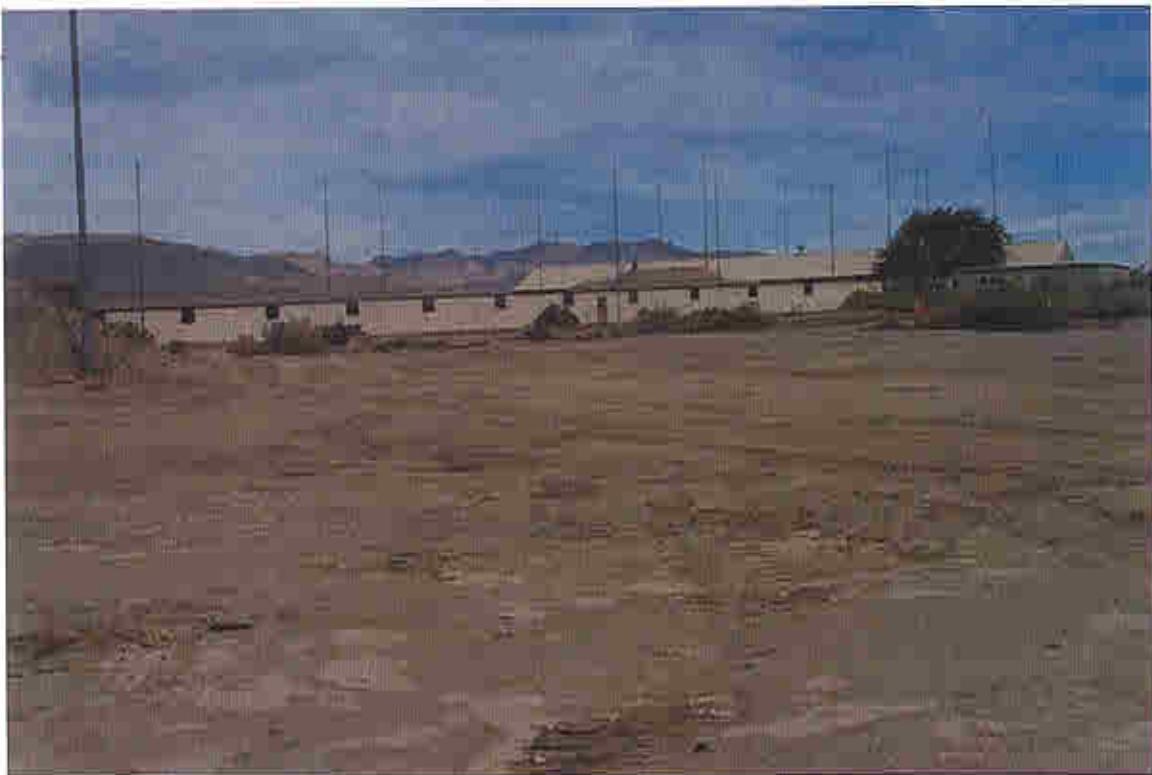
Appendix E



J-28, View to north, toward Bldg 108-3, from south rim of large impoundment (J-28b). #RI-P28, 11/2/93



J-28, View to southeast across small impoundment toward north corner of Bldg 108-3. #RI-P27, 11/2/93



SWMU J-28 September 2000